

1976

BIOGRAPHICAL SKETCHES OF PROFESSIONAL STAFF



**UNITED STATES NAVAL
MEDICAL RESEARCH UNIT NO. TWO**

APO SAN FRANCISCO, CALIFORNIA 96263

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
BETHESDA, MARYLAND





P. F. DIRK VAN PEENEN
Captain, MC, USN
Commanding Officer

PLACE AND DATE OF BIRTH:
Pensacola, Florida - 18 September 1932

EDUCATIONAL BACKGROUND:

Princeton University (B.A.)	1953
University of California, San Francisco (M.S.)	1956
University of California, San Francisco (M.D.)	1957
U. S. Naval Hospital, San Diego Internship	1958
Johns Hopkins University (M.P.H.)	1959
Johns Hopkins University (Dr. P. H.)	1960

PROFESSIONAL POSITIONS:

1960-1963	Head, Department of Epidemiology and Biostatistics, Naval Medical Research Unit No. 3, Cairo, Egypt.
1963-1965	Officer-in-Charge, U. S. Navy Preventive Medicine Unit No. 5, San Diego, California.
1965-1966	Officer-in-Charge, U. S. Navy Preventive Medicine Unit, DaNang, So. Vietnam.
1966-1970	Head, Zoonoses Section, Department of Clinical Investigation, Naval Medical Research Institute, National Naval Medical Center, Bethesda, Maryland.
1970-1974	Officer-in-Charge, U. S. Naval Medical Research Unit No. 2, Jakarta Detachment, Jakarta, Indonesia.
1974-present	Commanding Officer, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan, Republic of China.

PROFESSIONAL SOCIETIES:

American Society of Parasitologists
Society of Mammalogists
Phi Beta Kappa
Sigma XI

FIELDS OF INTEREST:

Epidemiology of zoonotic diseases.

CERTIFICATION:

Diplomate, American Board of Preventive Medicine
(General Preventive Medicine), October 1964

P. F. Dirk Van Peenen

PUBLICATIONS:

- Van Peenen, P. F. D. and Way, E. L.: The effect of certain nervous system depressants on pituitary-adrenal activating agents. *J. Pharmacol. and Exptl. Therap.* 120: 261-267, 1957.
- Van Peenen, P. F. D. and Kent, N. H.: (Abstr) Extraction of immunologically active protein complexes from Trichinella spiralis larvae. *J. Parasitol.* 46: 23, 1960.
- Farid, Z., Miale, A., Jr., Omar, M. S., and Van Peenen, P. F. D.: Antibiotic treatment of acute brucellosis caused by Brucella melitensis. *J. Trop. Med. Hyg.* 64: 157-163, 1961.
- Farid, Z., Miale, A., and Van Peenen, P. F. D.: (Demonstration) Brucella spondylitis, *Tr. Roy. Soc. Trop. Med. Hyg.* 55: 310, 1961.
- Van Peenen, P. F. D. and Reid, T. P., Jr.: Leishmaniasis in the Sudan Republic. VI. Clinical and laboratory aspects of kala-azar in hospitalized patients from Upper Nile Province. *Am. J. Trop. Med. Hyg.* 11: 723-730, 1962.
- Van Peenen, P. F. D. and Miale, I. L.: Leishmaniasis in the Sudan Republic. 5. Serum proteins in Sudanese kala-azar. *J. Trop. Med. Hyg.* 65: 191-195, 1962.
- Heyneman, D., Hoogstraal, H., Van Peenen, P. F. D., and Dietlein, D. R.: Leishmaniasis in the Sudan Republic. II. Epidemiological studies of a selected village in a highly endemic area, and a review of the pertinent literature. *Proc. 1st Internat. Protozool. Conf. (Prague, 22-31 August 1961):* 550-564.
- Van Peenen, P. F. D., Miale, I. L., and Reid, T. P., Jr.: Serum Protein electrophoresis in Sudanese kala-azar including 2 case histories. Paper presented at the 12th Middle East Medical Assembly, Beirut, May, 1962.
- Hoogstraal, H., Heyneman, D., Dietlein, D. R., Browne, H. G., Reid, T. P. Jr., Van Peenen, P. F. D., Saber, A. H., and Rohrs, L. C.: Leishmaniasis in the Sudan Republic: Epidemiological findings. *Bull. World Health Org.* 28: 263-265, 1963.
- Van Peenen, P. F. D.: Arvicanthus niloticus Desmarest, 1822, a new host for Borrelia crocidurae in Egypt. *East African Med. J.* 40: 83-86, 1963.
- Hoogstraal, H., Van Peenen, P. F. D., Reid, T. P., Jr., and Dietlein, D. R.: Leishmaniasis in the Sudan Republic. 10. Natural infections in rodents. *Am. J. Trop. Med. Hyg.* 12: 175-178, 1963.
- Van Peenen, P. F. D., Reid, T. P., Jr., and Attala, W.: Serological and stool survey in Siwa Oasis of Egypt. *J. Egypt. Pub. Health Assoc.* 38: 167-174, 1963.
- Van Peenen, P. F. D., Gutekunst, R. R., Dietlein, D. R., and Reid, T. P., Jr.: Serological and skin test survey in a Shilluk village of Central Sudan. *Tr. Roy. Soc. Trop. Med. Hyg.* 57: 297-305, 1963.

P. F. Dirk Van Peenen

- Van Peenen, P. F. D. and Dietlein, D. R.: Leishmaniasis in the Sudan Republic. 14. Leishmanin skin testing in Upper Nile Province. J. Trop. Med. Hyg. 66: 171-174, 1963.
- Van Peenen, P. F. D.: The distribution of Q fever antibodies in Egypt and Central Sudan. J. Egypt. Pub. Health. Assoc. 38: 247-255, 1963.
- Van Peenen, P. F. D. and Reid, T. P., Jr.: A serological and stool survey for diseases of Bedouin tribesmen in the Western Desert of Egypt. Trop. geogr. Med. 15: 243-248, 1963.
- Van Peenen, P. F. D., Brownlow, W. J., and Farid, Z.: Bovines as a source of brucellosis in Egypt. Pub. Health Rep. 78: 1001-1004, 1963.
- Van Peenen, P. F. D. and Reid, T. P., Jr.: Leishmaniasis in the Sudan Republic. 15. An outbreak of kala-azar in the Khor Falus area, Upper Nile Province. J. Trop. Med. Hyg. 66: 252-254, 1963.
- Van Peenen, P. F. D. and Attala, W.: Observations on blood parasites of Egyptian rodents. Ann. Trop. Med. Parasit. 57: 409-414, 1963.
- Taylor, W. W., Jr., Radcliffe, F., and Van Peenen, P. F. D.: A survey of small Egyptian mammals for pathogenic fungi. Sabouraudia, 3: 140-142, 1964.
- Van Peenen, P. F. D., Cannon, R. E., and Seibert, D. J.: Group B beta-hemolytic streptococci causing fatal meningitis in an infant. Military Med. 130: 65-67, 1965.
- Van Peenen, P. F. D.: Second attacks of meningococcal meningitis. Calif. Med. 103: 132-134, 1966.
- Van Peenen, P. F. D., Suiter, L. E., Mandel, A. D., and Mitchell, M. S.: Field evaluation of Thayer-Martin medium for identification of meningococcus carriers. Am. J. Epidem. 82: 329-333, 1966.
- Van Peenen, P. F. D.: Collection of animals for zoonoses research in Vietnam. Am. J. Med. Technology 33: 431-436, 1967.
- Van Peenen, P. F. D., Ryan, P. F., and McIntyre, T. J.: Eimeria korros n. sp. and E. modesta n. sp. (Protozoa: Eimeriidae) from a snake and a tree shrew in South Vietnam. J. Parasit. 53: 1148-1150, 1967.
- Van Peenen, P. F. D. and Duncan, J. F.: Piroplasms (Protozoa: Sarcodina) of wild mammals in California. Bull. Wildlife Dis. Assoc. 4: 3-8, 1968.
- Hoogstraal, H., Santana, F. J., and Van Peenen, P. F. D.: Ticks (Ixodoidea) of Mt. Sontra, DaNang, Republic of Vietnam. Ann. Entomological Soc. America 61: 722-729, 1968.
- Van Peenen, P. F. D. and Birdwell, T. L.: Coccidian parasites of the California Banded King Snake, Lampropeltis getulus californiae. Parasitology 58: 349-354, 1968.

P. F. Dirk Van Peenen

- Van Peenen, P. F. D., Hoogstraal, H., Duncan, J. F., and Ryan, P. F.: Hematozoa from mammals of South Vietnam. *J. Protozoology* 15: 608-614, 1968.
- Van Peenen, P. F. D.: A guide to the fruit bats of South Vietnam. *Formosan Sci.* 22: 95-107, 1968.
- Van Peenen, P. F. D.: Preliminary identification manual for mammals of South Vietnam. Washington, D. C.: U. S. National Museum, 310 pages, 1970.
- Van Peenen, P. F. D., Duncan, J. F., and Light, R. H.: Mammals of South Vietnam. I. Mammals commonly trapped during surveys. *Military Med.* 135: 384-390, 1970.
- Van Peenen, P. F. D., Cunningham, M. L., and Duncan, J. F.: A collection of mammals from Con Son Island, Vietnam. *J. Mammalogy* 51: 419-424, 1970.
- Van Peenen, P. F. D., Marshall, J. D., Jr., Cavanaugh, D. C., and Rust, J. H., Jr.: Mammals of South Vietnam. II. Disease implications. *Military Medicine* 135: 391-397, 1970.
- Duncan, J. F., Van Peenen, P. F. D., and Ryan, P. F.: Somatic chromosomes of eight mammals from Con Son Island, South Vietnam. *Caryologia* 23: 173-181, 1971.
- Van Peenen, P. F. D., Light, R. H., and Duncan, J. F.: Observations on mammals of Mt. Sontra, South Vietnam. *Mammalia (Paris)* 35: 126-143, 1971.
- Duncan, J. F. and Van Peenen, P. F. D.: Karyotypes of ten rats (Rodentia: Muridae) from Southeast Asia. *Caryologia* 24: 331-346, 1971.
- Van Peenen, P. F. D., Light, R. H., and Sulianti Saroso, J.: Leptospirosis in wild mammals of Indonesia. Recent surveys. *Southeast Asian J. Trop. Med. Pub. Hlth.* 2: 496-502, 1971.
- Light, R. H., Nasution, R., and Van Peenen, P. F. D.: Leptospirosis in febrile hospital patients in Djakarta. *Southeast Asian J. Trop. Med. Pub. Hlth.* 2: 493-495, 1971.
- Van Peenen, P. F. D.: NAMRU-2 studies on epidemiology of arbovirus infections in Indonesia. *Med. J. Indonesian Armed Forces* 3: 4-7, 1971.
- Joseph, S. W., Goke, D. L., Nadrifil, S., Van Peenen, P. F. D., and Widyaharsana, J.: Vibrio parahemolyticus related gastroenteritis in Djakarta, Indonesia. *Proc. 6th Singapore-Malaysia Cong. Med.*: 44-47, 1971.
- Van Peenen, P. F. D., Atmosoedjono, S., Lien, J. C., and Sulianti Saroso, J.: Seasonal abundance of adult Aedes aegypti in Djakarta, Indonesia. *Mosquito News*, 32: 176-179, 1972.
- Van Peenen, P. F. D.: Book review of the Wild Mammals of Malaya and Offshore Islands including Singapore by Lord Medway. *J. Wildlife Management*, 36: 662, 1972.
- Atmosoedjono, S., Van Peenen, P. F. D., See, R., and Sulianti Saroso, J.: Man-biting activity of Aedes aegypti in Djakarta, Indonesia. *Mosquito News* 32: 467-469, 1972.

P. F. Dirk Van Peenen

- Hoogstraal, H., Gaber, S., Van Peenen, P. F. D., Duncan, J. F., and Kadarsan, S.: Haemaphysalis (Rhipistoma) bartelsi Schulze (IXODOIDEA: Ixodidae): Immature stages from a treehole nest of the Indonesian red giant flying squirrel. *J. Parasit.* 58: 989-992, 1972.
- Atmosoedjono, S., Van Peenen, P. F. D., Joseph, S. W., Sulianti Saroso, J., and See, R.: Observations on possible Culex arbovirus vectors in Jakarta, Indonesia. *Southeast Asian J. Trop. Med. Pub. Hlth.* 4: 108-112, 1973.
- Joseph, S. W., Sindhuhardja, W., Zen-Yoji, H., Van Peenen, P. F. D., Kasai, G., and Sulianti Saroso, J.: Significance of Vibrio parahemolyticus and Vibrio alginolyticus from Javanese natural sources. Abstract of Annual Meeting Am. Soc. Microbiol. Meetings, Miami, May 1973. E7.
- Van Peenen, P. F. D., Joseph, S. W., Green, I. J., Sulianti Saroso, J., and Irsiana, R.: Dengue type 3 in Indonesia. *Roy. Soc. Trop. Med. Hyg.* 67: 418, 1973.
- Joseph, S. W., Van Peenen, P. F. D., Zen-Yoji, H., Berg, H. S., Kasai, G., and Sulianti Saroso, J.: Biochemical and pathogenic aspects of untypable Vibrio parahemolyticus. Abstracts of Annual Meeting Am. Soc. Microbiol. Miami, May 1973, M238.
- Van Peenen, P. F. D., Light, R. H., Duncan, J. F., See, R., Sulianti Saroso, J., Boeadi and Carney, W. P.: Observation on Rattus bartelsii (Rodentia: Muridae). *Treubia*, 28: 83-117, 1974.
- Van Peenen, P. F. D., Joseph, S. W., Shope, R. E., Irsiana, R., Sulianti Saroso, J., and Joseph, P. L.: First isolation of Japanese encephalitis virus from Java. *Military Medicine* 139: 821-823, 1974.
- Hoogstraal, H., Carney, W. P., Kadarsan, S., and Van Peenen, P. F. D.: Haemaphysalis (Kaiseriana) celebensis Hoogstraal, Trapido and Kohls (IXODOIDEA: Ixodidae), a Wallacean member of the Hystrix group: Identity, distribution, hosts, and ecology. *J. Parasitology*, 59: 556-562, 1973.
- Koesharjono, C., Van Peenen, P. F. D., Joseph, S. W., Sulianti Saroso, J., Irving, G. S., and Durfee, P. T.: Serological survey of pigs from a slaughterhouse in Jakarta, Indonesia. *Bull. Hlth. Studies Indon.* 1: 8-18, 1973.
- Carney, W. P., Soedomo, M., Seregeg, I. G., Van Peenen, P. F. D., Rogers, V., Clarke, M. D., Watten, R. H., and Sulianti Saroso, J.: Ecological aspects of Schistosomiasis at Lake Lindu, Central Sulawesi. *J. Parasit.* 58(Suppl): 123, 1972 (Abstract).
- Carney, W. P., Soedomo, M., Seregeg, I. G., Joesoef, A., Van Peenen, P. F. D., Sulianti Saroso, J., and Watten, R. H.: Schistosomiasis in Indonesia: Ecological and zoonotic aspects. The 9th Internat. Congr. Trop. Med. & Malaria, Athens, 14-21 Oct. 1973, Abstract of Communications, 1: 82 (No. 120).
- Van Peenen, P. F. D., Carney, W. P., Sulianti Saroso, J., Seregeg, I. G., Soedomo, M., and Putrali, J.: Mammals and their parasites in Gumbasa Valley, Central Sulawesi, Indonesia. The 9th Internat. Congr. Trop. Med. & Malaria, Athens, 14-20 Oct. 1973, Abstract of Communications, II-95 (No. 161).

P. F. Dirk Van Peenen

- Carney, W. P., Van Peenen, P. F. D., Sutanti Tanudjaja, Soedomo, M., Djajasasmita, M., Wiroreno, W., Clarke, M. D., Cross, J. H., Sulianti Saroso, J., and Watten, R. H.: Echinostomiasis Lindoensis, a disease that disappeared. The 9th Internat. Congr. Trop. Med. & Malaria, Athens, 14-21 Oct. 1973, Abstracts of Communications, II: 138 (No. 235).
- Hoogstraal, H., El Kammah, K., Santana, F. J., and Van Peenen, P. F. D.: Studies on Southeast Asian Haemaphysalis ticks (IXODOIDEA: Ixodidae). H. (Kaiseriana) lagrangei Larrouse: Identity, distribution, and hosts. J. Parasit. 59: 1118-1129, 1973.
- Van Peenen, P. F. D., Joseph, S. W., Soeroto Atmosoedjono, Irsiana, R., Sulianti Saroso, J., and Oni Saaroni: Group B arbovirus antibodies in sentinel pigs near Jakarta, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 1-3, 1974.
- Hoogstraal, H., Kadarsan, S., Kaiser, M. N., and Van Peenen, P. F. D.: Ornithodoros (Alectorobius) callocaliae, new species (IXODOIDEA: Argasidae), Parasitizing cave Swiftlets (Aves: Apodidae) in Java. Annals Entomological Soc. Am. 67: 224-230, 1974.
- Van Peenen, P. F. D., Joseph, S. W., Ansari Saleh, Light, R. H., Sukeri, S., and See, R.: The Indonesian developmental area study: Observations on mammals from South and East Kalimantan (Borneo). Southeast Asian J. Trop. Med. Pub. Hlth. 5: 390-397, 1974.
- Van Peenen, P. F. D., Koesharjono, C., Joseph, S. W., Sulianti Saroso, J., and Irving, G. S.: Serological survey of cattle from a slaughterhouse in Jakarta, Indonesia. Indon. Bull. Hlth. Studies, 1: 1-8, 1974.
- Joseph, S. W., Van Peenen, P. F. D., Suwignjo, H. B., and Lee, C. S.: Observations on Vibrio parahemolyticus with the rabbit ligated Ileal loop method. Abstract of the Annual Meeting 1974, American Society for Microbiology.
- Van Peenen, P. F. D., Atmosoedjono, S., Iskandar, and Sulianti Saroso, J.: Seasonal distribution of Culicine mosquitoes near Jakarta, Indonesia. J. Med. Ent. 11: 425-428, 1974.
- Carney, W. P., Purnomo, Van Peenen, P. F. D., and Saroso, J. S.: Echinostomiasis in Indonesia with special emphasis on Echinostoma lindoense. Abstract of the Third International Congress of Parasitology, 25-31 August 1974, Munich, Germany.
- Carney, W. P., Purnomo, Tanudjaja, S., Van Peenen, P. F. D., and Saroso, J. S.: Angiostrongylosis in Indonesia. Abstract of the Third International Congress of Parasitology, 25-31 August 1974, Munich, Germany.
- Carney, W. P., Purnomo, Sudomo, M., Van Peenen, P. F. D., and Saroso, J. S.: Mammalian Schistosomes in Indonesia. Abstract of the Third International Congress of Parasitology, 25-31 August 1974, Munich, Germany.
- Hadi, T., Carney, W. P., Van Peenen, P. F. D., and Saroso, J. S.: Geographical distribution and host occurrence of scrub typhus vectors in Indonesia. Abstract of the Third International Congress of Parasitology, 25-31 August 1974, Munich, Germany.

P. F. Dirk Van Peenen

- Brown, R. J., Carney, W. P., and Van Peenen, P. F. D.: Sarcocystis from rats in Sulawesi, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 451-452, 1974.
- Van Peenen, P. F. D., Anderson, K. E., See, R., and Nasution, R.: Serological evidence of arbovirus infection in febrile hospitalized patients in Jakarta, Indonesia during 1970-1971. J. Trop. Med. Hyg. 77: 244-246, 1974.
- Brown, R. J., Cross, J. H., Van Peenen, P. F. D., Carney, W. P., and Sulianti Saroso, J.: Capillariid-like eggs in livers of bats from Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 599-600, 1974.
- Van Peenen, P. F. D., Carney, W. P., Sudomo, M., and Saroso, J. S.: Parasites of Mammals in Gumbasa Valley, Central Sulawesi, Indonesia. Trop. geogr. Med. 26: 352-358, 1974.
- Van Peenen, P. F. D., Rosen, L., Saroso, J. S., and Irsiana, R.: Follow-up on dengue types in Jakarta, Indonesia. Trans. Roy. Soc. Trop. Med. Hyg. 68: 342-343, 1974.
- Putrali, J., Kaleb, Y. M., Van Peenen, P. F. D., and Sulianti Saroso, J.: Mass Treatment of Malayan Filariasis in the Gumbasa Irrigation Area of Central Sulawesi. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 206-210, 1975.
- Van Peenen, P. F. D., Irsiana, R., Kosasih, E. N., Siregar, A., Sembiring, P., and Rosen, L.: Type 3 and Type 4 dengue in Medan, North Sumatra. J. Trop. Med. Hyg. 78: 138-139, 1975.
- Brown, R. J., Van Peenen, P. F. D., Sulianti Saroso, J., Carney, W. P., and Cross, J. H.: Capillariasis in Wild Rats of Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 219-222, 1975.
- Van Peenen, P. F. D., Atmosoedjono, S., Irsiana, R., Joseph, P. L., and Saroso, J. S.: Isolation of Japanese Encephalitis Virus from Mosquitoes near Bogor, West Java, Indonesia. J. Med. Entomol. (In press).
- Van Peenen, P. F. D., Joseph, S. W., Casals, J., Sulianti Saroso, J., and See, R.: Arbovirus Antibodies in Indonesias at Malili, South Sulawesi (Celebes) and Balikpapan, E. Kalimantan (Borneo). Am. Trop. Med. Parasitol. (In press).
- Van Peenen, P. F. D.: Piroplasmosis in rats from Indonesia. Bulletin de la Societe de Pathologie Exotique (In press).
- Van Peenen, P. F. D., Joseph, P. L., Sulianti Saroso, J., Atmosoedjono, S., and Irsiana, R.: Japanese encephalitis virus from pigs and mosquitoes in Jakarta, Indonesia. Trans. Roy. Soc. Trop. Med. Hyg. (In press).
- Atmosoedjono, S., Van Peenen, P. F. D., Sulianti Saroso, J., and Pawirosuwarno, S.: Culex fatigans and anopheline mosquitoes near Jakarta, Indonesia during 1972. Bulletin Penelitian Kesehatan Health Studies in Indonesia 3:1-3, 1975.

P. F. Dirk Van Peenen

- Sunoto, Van Peenen, P. F. D., Sumarmo, Sarno Sinto, and Joseph, P. L.: Studies on Dengue in Children at Dr. Cipto Mangunkusumo General Hospital, Jakarta (May 1973-January 1974). *Paediatrica Indonesiana* 15: 143-150, 1975.
- Hadi, T. R., Carney, W. P., Van Peenen, P. F. D., and Hull, W. B.: Laelapid mites from mammals of South Vietnam. *J. Med. Ent.* (In press).
- Van Peenen, P. F. D., Sunoto, Sumarmo, Sulianti Saroso, J., Sinto, S., Joseph, P. L., and See, R.: Dengue with hemorrhage and shock in Jakarta, Indonesia. *J. Trop. Pediatr.* (In press).
- Van Peenen, P. F. D., Gundelfinger, B. F., See, R., Carney, W. P., Putrali, J., and Sulianti Saroso, J.: Disease Survey of Palolo Valley, Central Sulawesi, Indonesia. I. Description of the area and the sample. *Mil. Med.* (In press).
- Van Peenen, P. F. D., Carney, W. P., See, R., Gundelfinger, B. F., and Cross, J. H.: Disease Survey of Palolo Valley, Central Sulawesi, Indonesia. II. Intestinal parasites, malaria, and filariasis. *Mil. Med.* (In press).
- Gundelfinger, B. F., See, R., Van Peenen, P. F. D., and Irving, G. S.: Disease Survey of Palolu Valley, Central Sulawesi, Indonesia. III. Serological findings. *Mil. Med.* (In press).
- Van Peenen, P. F. D., Gouw Soan Lin, S. Y., Brown, R. J., Sukeri, and Boedi: Observations on the giant Flores rat, Papagomys armandvillei. *Treubia*. (In press).
- Atmosoedjono, S., Van Peenen, P. F. D., and Putrali, J.: Anopheles barbirostris (Van Der Sulp) still an efficient vector of Brugia malayi in Central Sulawesi (Celebes), Indonesia. *Trans. Roy. Soc. Trop. Med. Hyg.* (Submitted).
- Van Peenen, P. F. D., Lien, J. C., Santana, F. J., and See, R.: Correlation of Chigger Abundance with Temperature at a Hyperendemic Focus of Scrub Typhus. *J. Parasit.* (Submitted).



KURT SORESENSEN, M. D.
CDR MC USN
Officer-in-Charge, Jakarta Detachment

PLACE AND DATE OF BIRTH:
Fredericia, Denmark - 26 July 1935

EDUCATIONAL BACKGROUND:
Fredericia Gymnasium, Fredericia,
Denmark 1953
Collonges Saleve, Haute Savoie
France (S.A.S.) 1954
University of Madrid, Spain 1955
La Sierra College, Arlington,
California (B.A.) 1957
Loma Linda University (M.D.) 1961
London School of Hygiene and
Tropical Medicine, Clinical
Tropical Medicine Department
(D.C.M.T.) 1972
London School of Hygiene and
Tropical Medicine, Microbiology
Department 1973

PROFESSIONAL POSITIONS:

1963-1964 Assistant in Medicine, George Washington University Hospital.
1966-1968 Staff Pulmonary Disease Service, Naval Hospital St. Albans, N. Y.
1968-1971 Head, Medical Department, U. S. Naval Medical Research Unit No. 3,
Cairo, U.A.R.
1969-1971 Executive Officer, U. S. Naval Medical Research Unit No. 3, Cairo,
U.A.R.
1974-present Officer-in-Charge, U. S. Naval Medical Research Unit No. 2, Jakarta
Detachment.

PROFESSIONAL SOCIETIES:

American Society of Tropical Medicine and Hygiene
Royal Society of Tropical Medicine and Hygiene
American Thoracic Society

FIELDS OF INTEREST:

Infectious Diseases
Pulmonary Diseases

PUBLICATIONS:

Houk, V. N., Kent, D. C., Baker, J. H., Sorensen, K., and Hanzel, D.: The byrd
study: An in depth analysis of a Micro outbreak of Tuberculosis in a closed
environment. Arch. Env. Hlth. 16: 4-6, 1968.

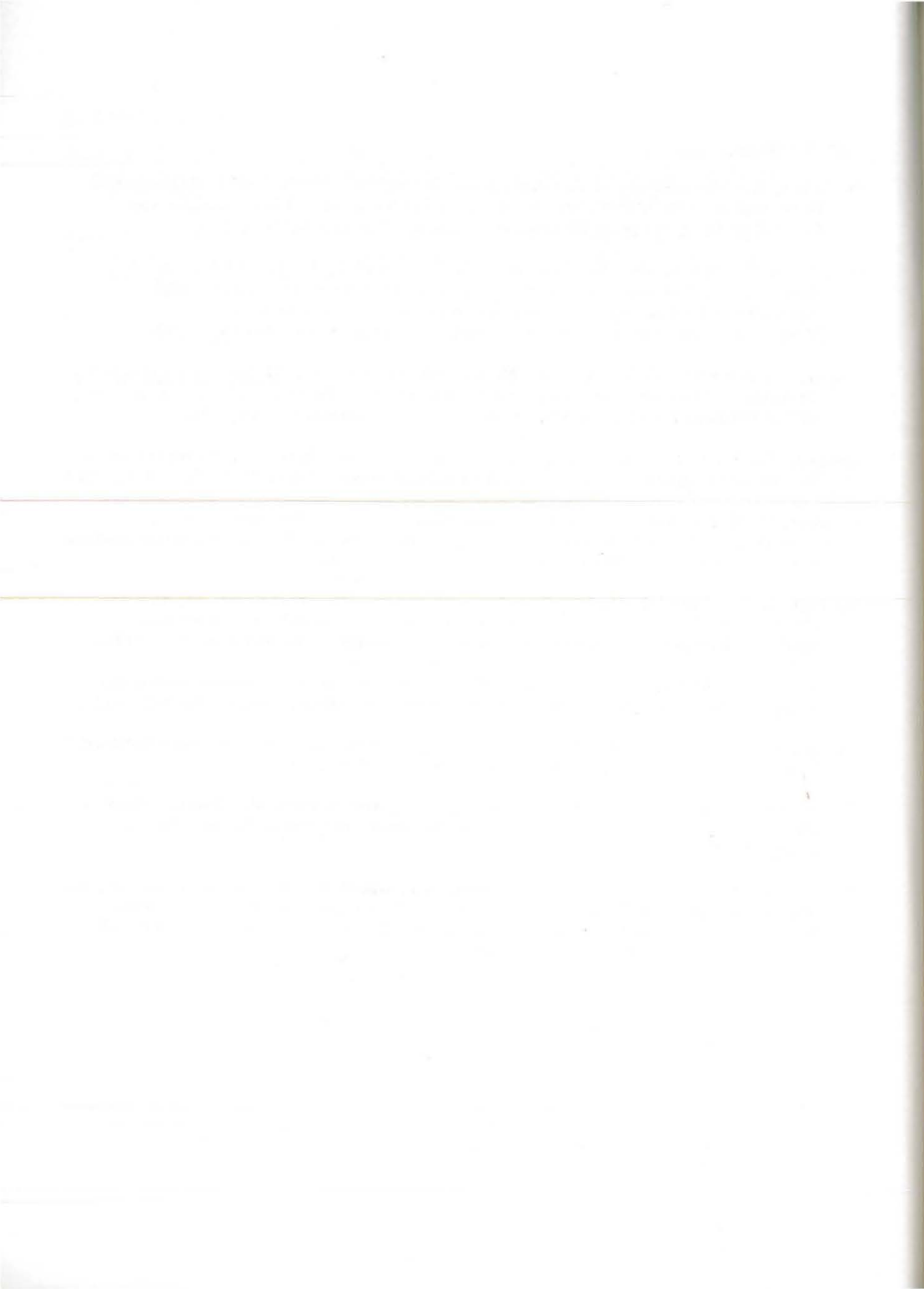
Houk, V. N., Baker, J. H., Sorensen, K., and Kent, D. C.: The epidemiology of
tuberculosis infection in a closed environment. Arch. Env. Hlth. 16: 26-35, 1968.

Kurt Sorensen

- Houk, V. N., Kent, D. C., Sorensen, K., and Baker, J. H.: The eradication of tuberculosis infection by isoniazid chemoprophylaxis. *Arch. Env. Hlth.* 16: 46-50, 1968.
- Houk, V. N., Kent, D. C., Baker, J. H., Sorensen, K.: The comparison of paired tuberculins: Two simultaneously applied tuberculin skin tests in 425 separate paired positive reaction. *Arch. Env. Hlth.* 16: 36-45, 1968.
- Farid, Z., Kent, D. C., Bassily, S., Abdel Wahab, M. F., Lehman, J. S., Sorensen, K., Hassan, A., and Mullard, J. W.: Treatment of urinary schistosomiasis: A quantitative evaluation. *Proceedings of First African Symposium on Bilharziasis*, Feb., 8-14, 1969, U.A.R.
- Sorensen, K.: Review of treatment of meningitis. *Meningitis Symposium. J. Egypt. Publ. Hlth. Ass.* 44: 408-424, Special Number 1969.
- Kent, D. C., Houk, V. N., Elliott, R. C., Sokolowski, J. W., Jr., Baker, J. H., and Sorensen, K.: The definitive evaluation of sarcoidosis. *Am. Rev. Resp. Dis.* 101: 721-727, 1970.
- Sorensen, K. and Abdel Wahab, M. F.: Evaluation of intramuscular ampicillin in the treatment of Salmonella enteric fever. *Clinical Research* 18: 1970 (Abstract)
- Sorensen, K., Abdel Wahab, M. F., Sanborn, W., Hathout, S., Hassan, A., and Kent, D. C.: Evaluation of chloramphenicol given orally and ampicillin given either intramuscularly or orally in the treatment of Salmonella enteric fever. *J. Egypt. Publ. Hlth. Ass.* 45: 195-205, 1970.
- Sorensen, K., Girgis, N. I., Yassin, W., Sanborn, W. R., Abu El Ela, A., Smith, J. H., Hassan, A., and Kent, D. C.: Ethambutol in the treatment of tuberculous Meningitis (Preliminary Report). *Proceedings Segundo Simposio Internacional Sobre Quimioterapia de la Tuberculosis* 25-28 November 1970 - Buenos Aires, Argentina.
- Sorensen, K., Abdulla, A., Hassan, A., Williams, R.: Hepatitis Associated Antigen in Cairo. *Hepatitis Symposium*, Cairo, March 1971.
- Sorensen, K., Girgis, N. I., Yassin, W., El Ela, A. A., Smith, J. H., Hassan, A., Sanborn, W. R., and Kent, D. C.: Ethambutol in the treatment of tuberculous Meningitis: Preliminary Report of a Prospective, Controlled Therapy Trial. *Amer. Review of Resp. Disease* 103: 887-888, 1971.
- Sorensen, K.: Hepatitis in Egyptian Children. Determination of Australia Antigen using the complement Fixation Test and Solid-Phase Radioimmuno assay. *D.C.M.T. Dissertation*, London School of Hygiene and Tropical Medicine, 1972.
- Mikhael, I. A., Kent, D. C., Sorensen, K., Sanborn, W. R., and Smith, J. H.: Concentrations of ampicillin and chloramphenicol in the serum of patients with acute Salmonella enteric fever. *Antimicrobial Agents and Chemotherapy* 2: 336-339, 1972.

Kurt Sorensen

- Sorensen, K.: Surveillance of Cerebrospinal Meningitis. World Health Organization Document AFR/1602/WP.02. Seminar on Epidemiological Surveillance and Control of Cerebrospinal Meningitis. Lagos, Nigeria, April 1972.
- Girgis, N. I., Yassin, M. W., Sanborn, W. R., Burdick, R. E., El Ela, A. A., Kent, D. C., Sorensen, K., and Nabil, I. M.: Ampicillin compared with penicillin and chloramphenicol combined in the treatment of bacterial Meningitis. *Journal of Tropical Medicine and Hygiene* 75: 154-157, 1972.
- Sippel, J., Sanborn, W. R., Girgis, N. I., and Sorensen, K.: Neisseria meningitidis Carriage in Meningitis Patients and their Contacts. *Bacteriological Proceedings*, 1972. (Abstract of the Ann. Meet. Am. Soc. Microbiol. p. 114, 1972).
- Hassan, A., Erian Mabram, Said, F., Sorensen, K., and Sippel, J.: Comparison of Co-trimoxazole and chloramphenicol in enteric fever. *Brit. Med. J.* 3: 108, 1973.
- Youssef, H. H., Sippel, J., Sorensen, K., Mikhail, I. A., Mahmoud, M. E., Maraghi, A. El., and Robert, A.: Rifampicin serum level in Egyptian tuberculous patients. *Ain Shams Medical Journal* 25: 65-67, 1974.
- Mikhail, I. A., Youssef, H. H., Sippel, J., Sorensen, K., Mahmoud, M. E., Maraghi, A. El., and Robert, A.: Ethambutol serum levels of tuberculous patients after oral administration. *Ain Shams Medical Journal* 25: 39-41, 1974.
- Sorensen, K., Girgis, N. I., Sanborn, W. R.: Case report - Meningococcemia due to Neisseria meningitidis serogroup D. *Scand. J. Infect. Dis.* 6: 365-366, 1974.
- Hablas, R., Sanborn, W. R., and Sorensen, K.: Salmonella serotypes newly isolated from humans in Egypt. *Trop. geogr. Med.* 26: 84-86, 1974.
- Hassan, A., Girgis, N., Sippel, J., Sorensen, K., and Yassin, M.: Use of sulfadiazine in the prophylaxis of Group A meningococcal carriers in Egypt. *Trop. geogr. Med.* 26: 87-90, 1974.
- Hassan, A., Hathout, S., Safwat, Y., Erian, M., Abdel Wahab, M. F., Sorensen, K., Sippel, J., and Farid, Z.: A comparative evaluation of the treatment of typhoid fevers with co-trimoxazole and chloramphenicol in Egypt. *Journal of Tropical Medicine and Hygiene* 78: 50-53, 1975.





WARREN R. SANBORN
CDR MSC USN
Jakarta Detachment

PLACE AND DATE OF BIRTH:
Detroit, Michigan - 21 October 1930

EDUCATIONAL BACKGROUND:

Denison University (B.S.)	1952
Michigan State University (M.S.)	1954
University of North Carolina	1955
Robert A. Taft Sanitary Engineering Center	1957
National Institutes of Health Courses	1965

PROFESSIONAL POSITIONS:

1955-1958	Laboratory Officer, Preventive Medicine Unit No. 2.
1958-1962	Research Microbiologist and Executive Officer, U. S. Naval Unit, Walter Reed Army Medical Laboratory.
1962-1966	Research Microbiologist and Head, Fluorescent Microscopy Branch, U. S. Naval Medical Research Institute.
1966-1970	Head, Bacteriology Department, U. S. Naval Medical Research Unit No. 3, Cairo, Egypt.
1970-1974	Head, Epidemiology and Ecology Diagnostic Services, U. S. Naval Medical Research Unit No. 1, California.
1972-1974	Executive Officer, U. S. Naval Medical Research Unit No. 1, California.
1970-present	Consultant, WHO.
1974-present	Head, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Jakarta Detachment.

PROFESSIONAL SOCIETIES:

American Public Health Association
American Society for Microbiology
American Society for Tropical Medicine and Hygiene
Royal Society of Health
American Society of Parasitology
Sigma Xi
The Royal Society of Tropical Medicine and Hygiene
National Geographic Society
Conference of Public Health Laboratory Directors

FIELDS OF INTEREST:

Diagnostic medical microbiology.
Microbiology, epidemiology, and ecology of infectious diseases.
Techniques for rapid and field-adaptable laboratory diagnosis of infectious diseases.
Immunofluorescence and immuno-osmophoresis.

CDR Warren R. Sanborn

PUBLICATIONS:

- Sanborn, W. R.: Studies on Cultural Serological and Other Aspects of Trichomonads Associated with Atrophic Rhinitis and Similar Studies on Other Trichomonads. Thesis, Michigan State College (University) 1954.
- Sanborn, W. R.: Microagglutination reactions of Trichomonas suis, T. sp., and T. foetus. J. Parasitol. 41: 295-298, 1955.
- James, A. D., Sanborn, W. R.: Potable water on submarines. U. S. Armed Forces Med. J. 8: 1792-1800, 1957.
- Sanborn, W. R.: Laboratory procedures in food and water-borne diseases. Military Medicine 123: 144-147, 1958.
- Sanborn, W. R.: The relation of surface contamination to the transmission of disease. Amer. J. Public Health 53: 1278-1283, 1963.
- Sanborn, W. R.: Immunofluorescence, An annotated Bibliography (Miscellaneous Publication 3). Published by the U. S. Army Approx. 1250 citations.
- Vol. I. Bacterial Studies.
 - Vol. II. Viral Studies.
 - Vol. III. Studies on Fungi, Metazoa, Protozoa and Rickettsiae.
 - Vol. IV. Studies of Animal Physiology.
 - Vol. V. Diagnostic Applications and Review Articles.
 - Vol. VI. Technical Procedures.
 - Vol. VII. Author and Subject Index.
- Sanborn, W. R., Vedros, N. A.: Possibilities of application of complement fixation, indirect hemagglutination and fluorescent antibody tests to epidemiology of meningococcal infection. Health Lab. Sci. 3: 111-117, 1966.
- Adelman, S. L., Brewer, A. K., Hoerman, K. C., and Sanborn, W. R.: Differential identification of micro-organisms by analysis of phosphorescent decay. Nature 213: 718-720, 1967.
- Sanborn, W. R.: Identification of microbial agents by fluorescent antibody. Proceedings of the Conference on Rapid Identification of Microbial Agents. 12-14 April 1966, pages 114-123. USAF School of Aerospace Medicine and the Office of Naval Research, 1967.
- Sanborn, W. R.: Immunofluorescence, An Annotated Bibliography (Miscellaneous Publication 20). U. S. Army. Approx. 2,000 further citations in addition to those of misc. Pub. 3. Vols. I-VII. Same titles as in the earlier edition of this book.
- Alexander, C. E., Sanborn, W. R., Cherriere, C., Crocker, W. H., Jr., Ewald, P. E., and Kay, C. R.: Sulfadiazine-resistant group A Neisseria meningitidis. Science 161: 1019, 1968.
- Sanborn, W. R., Wahba, A. H., Ewald, P. E., and Diab, A. S.: Non-cholera vibrios of Egyptian surface waters. J. Egyptian Public Health Assoc. 43: 320-328, 1968.

CDR Warren R. Sanborn

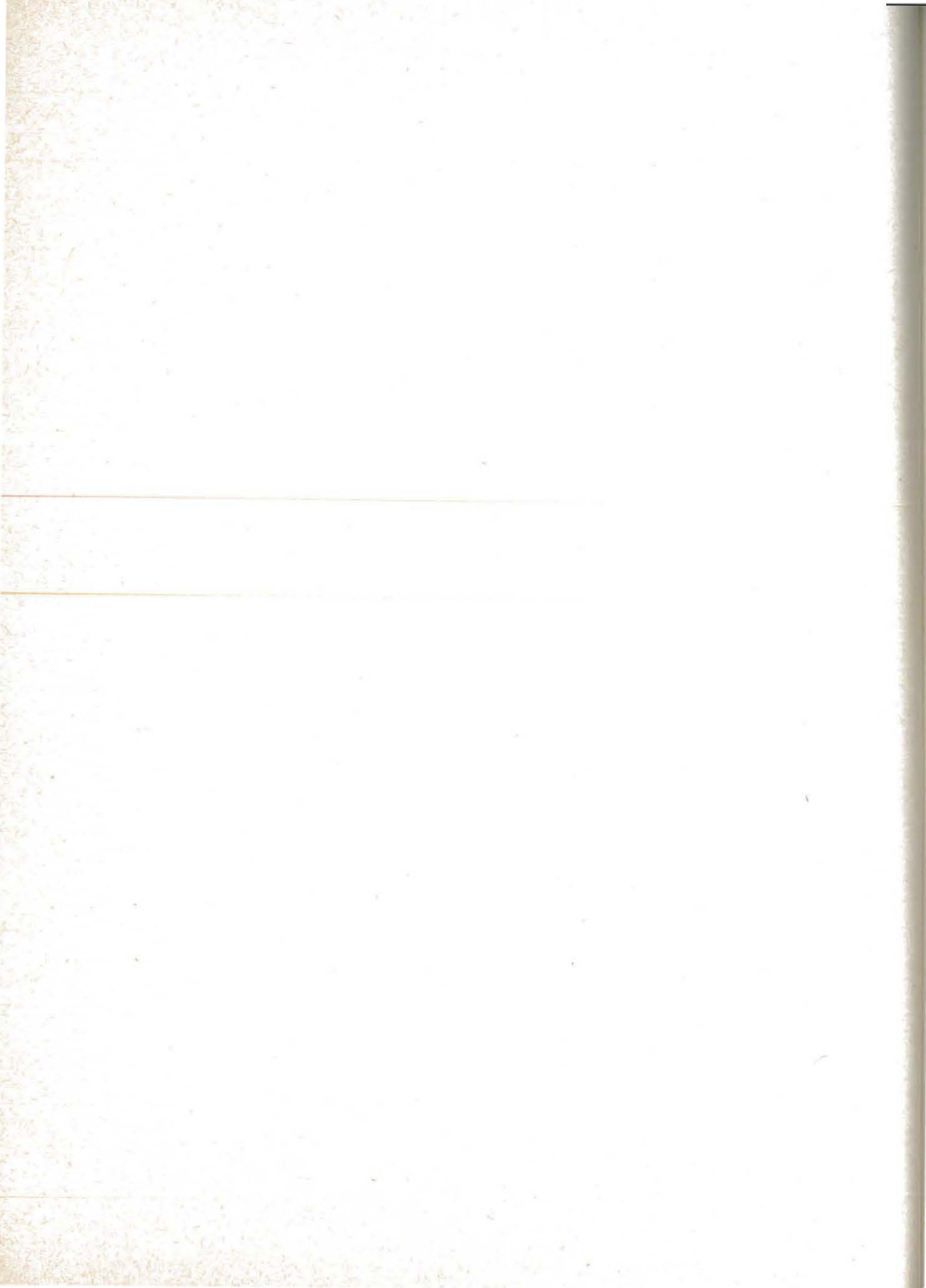
- Charlas, R., Charriere, G., Hollinshausen, J., Lekorch, F., Charlas, J., Alexander, C. E., and Sanborn, W. R.: Sulfamido-resistance du meningocoque A. A propos de 496 cas de meningite cerebrospinal traites dans un service de pediatrie au Maroc. *Maroc Medecale* 5: 673-685, 1971.
- Sorensen, K., Girgis, N. I., Yassin, W., El Ela, A. A., Smith, J. H., Hassan, A., Sanborn, W. R., and Kent, D. C.: Ethambutol in the treatment of tuberculous meningitis: Preliminary report of a prospective, controlled therapy trial. *Amer. Rev. Resp. Dis.* 103: 887-888, 1972.
- Gotschlich, E. C., Rey, M., Etienne, J., Sanborn, W. R., Tria, R., and Cvjetanovic, B.: The immunological responses observed in field studies in Africa with group A meningococcal vaccines. *Prog. Immunobiol. Standard.* 5: 485-491, 1972.
- Sanborn, W. R., Bencic, Z., Cvjetanovic, B., Gotschlich, E. C., Pollock, T. M., and Sippel, J. E.: Trial of a serogroup A meningococcus polysaccharide vaccine in Nigeria. *Prog. Immunobiol. Standard.* 5: 497-505, 1972.
- Sippel, J., Sanborn, W. R., Girgis, N., and Sorensen, K.: Neisseria meningitidis carriage in meningitis patients and their contacts. *Bact. Proc.* M205.
- Girgis, N. I., Yassin, M. W., Sanborn, W. R., Burdick, R. E., El Ela, A. A., Kent, D. C., Sorensen, K., and Nabil, I. M.: Ampicillin compared with penicillin and chloramphenicol combined in the treatment of bacterial meningitis. *J. Trop. Med. Hyg.* 75: 154-157, 1972.
- Mikhail, I. A., Kent, D. C., Sorensen, K., Sanborn, W. R., and Smith, J.: Concentration of ampicillin and chloramphenicol in the serum of patients with acute Salmonella enteric fever. *Antimicrob. Agents Chemother.* 2: 336-339, 1972.
- Sanborn, W. R.: Planning and organization of a CSM vaccine trial. In: *Epidemiologic surveillance and control of cerebrospinal meningitis. Report of a Seminar, in Lagos, Nigeria. Regional Office for Africa, W.H.O., Brazzaville, 1972.*
- Wahdan, M. H., Rizk, F., El-Akkad, A. M., El Ghoroury, A. A., Hablas, R., Girgis, N. I., Amer, A. Boctar, W., Sippel, J., Gotschlich, E. C., Tria, R., Sanborn, W. R., and Cvjetanovic, B.: A controlled field trial of a serogroup A meningococcal polysaccharide vaccine. *Bull. World Health Org.* 48: 667-673, 1973.
- Erwa, H. H., Haseeb, M. A., Idris, A. A., Lapeyssonnie, L., Sanborn, W. R., and Sippel, J. E.: A serogroup A meningococcal polysaccharide vaccine: Studies in the Sudan to combat cerebrospinal meningitis caused by Neisseria meningitidis group A. *Bull World Health Org.* 49: 301-305, 1973.
- Sanborn, W. R.: Epidemiology of serogroup A meningococcal disease in Egypt as a basis for vaccine trials by assessment of incidence. pp. 31-39. *Proceedings: Table Ronde sur l'Immunoprophylaxie de la meningite cerebrospinale; Saint Paul de Vence (France). Edition Fondation Merieux, 17, Blvd, des Belges 69006 LYON.*

CDR Warren R. Sanborn

- Wahab, K. A., Elmasry, N. A., Ismail, M., Zaklama, N. S., Imam, I. Z. E., Walter, E. L., and Sanborn, W. R.: A study of aseptic meningitis and encephalitis in Cairo. J. Egypt. Pub. Health Assoc. 44: 309-325, 1969.
- Sanborn, W. R.: Sulfa-drug resistance and serologic studies of a meningococcal meningitis epidemic. J. Egypt. Pub. Health Assoc. 44: 356-368, 1969.
- Sanborn, W. R.: Meningitis diagnostic bacteriology. J. Egypt. Pub. Health Assoc. 44: 385-407, 1969.
- Girgis, N. I., Yassin, M. W., Sanborn, W. R., and Abuel-Ela: Ampicillin in the treatment of bacterial meningitis. J. Egypt. Pub. Health Assoc. 44: 425-435, 1969.
- Hablas, R., Nicolle, P., and Sanborn, W. R.: Phage typing of Salmonella typhi and S. paratyphi as related to salmonellosis in Egypt. J. Egypt. Pub. Health Assoc. 45: 134-144, 1970.
- Sanborn, W. R. and Dyer, J. C.: Comparative efficiency and application of blood culture techniques for enteric fever diagnosis. J. Egypt. Pub. Health Assoc. 45: 181-194, 1970.
- Sorensen, K., Abdel Wahab, M. F., Sanborn, W. R., Hathout, S., Hassan, A., and Kent, D. C.: Evaluation of chloramphenicol given orally and ampicillin given either intramuscularly or orally in the treatment of Salmonella enteric fever. J. Egypt. Pub. Health Assoc. 45: 195-205, 1970.
- Girgis, N. I., Sanborn, W. R., and Yassin, M. W.: Pseudomonas meningitis: Report of two cases in the United Arab Republic. J. Egypt. Pub. Health Assoc. 45: 302-308, 1970.
- Farid, Z., Hassan, A., Wahab, M. F. A., Sanborn, W. R., Kent, D. C., Yassa, A., and Hathout, S. E.: Trimethoprim-sulphamethoxazole in enteric fevers. Brit. Med. J. 3: 323-324, 1970.
- Bassily, S., Farid, Z., Lehman, J. S., Jr., Kent, D. C., Sanborn, W. R., and Hathout, S. D.: Treatment of chronic urinary Salmonella carriers. Trans Roy. Soc. Trop. Med. Hyg. 64: 723-729, 1970.
- Farid, Z., Bassily, S., Kent, D. C., Sanborn, W. R., Hassan, A., Abdel Wahab, M. F., and Lehman, J. S., Jr.: Chronic urinary Salmonella carriers with intermittent bacteraemia. J. Trop. Med. Hyg. 73: 153-156, 1970.
- Carter, J. P., Sanborn, W. R., Diab, A. S., Grivetti, L. E., Nasiff, S., and Davies, J. A.: Bacteriological and urinary findings in adolescent Egyptian males with and without urinary schistosomiasis. J. Trop. Med. Hyg. 73: 211-217, 1970.
- Sorensen, K., Girgis, N. I., Yassin, W., Sanborn, W. R., Abu El Ela, A., Smith, J. H., Hassan, A., and Kent, D. C.: Ethambutol in the treatment of tuberculous meningitis (Preliminary Report). Proceedings Segundo Simposio Internacional Sobre Quimioterapia de la Tuberculosis, 25-28 November 1970 - Buenos Aires, Argentina.

CDR Warren R. Sanborn

- Sanborn, W. R.: Meningococcus Gr. A polysaccharide vaccine trials. pp. 40-52.
Proceedings: Table Ronde sur l'Immunoprophylaxie de la meningite cerebrospinale;
Saint Paul de Vence (France). Edition Fondation Merieux, 17, Blvd, des Belges
69006 LYON.
- Hablas, R., Sanborn, W. R., and Sorensen, K.: Salmonella serotypes newly isolated
from humans in Egypt. Trop. Geog. Med. 26: 84-86, 1974.
- Sorensen, K., Girgis, N. I., Sanborn, W. R.: Case report- Meningococcemia due
to Neisseria meningitidis serogroup D. Scand. J. Infect. Dis. 6: 365-366, 1974.
- Sanborn, W. R., Lesmana, M., Dennis, D. T., Kadirman, R. J., Lita, I., and
Suyani: Antibiotic-resistant typhoid in Indonesia. Lancet 2(7931): 408-409, 1975.





BURTON O. LEEB
CDR MC USN
Head, Pathology Department

PLACE AND DATE OF BIRTH:
New York - 3 August 1935

EDUCATIONAL BACKGROUND:
Davis and Elkins College, Elkins,
W. Va. (B.S.) 1955
Catholic University of Louvain
School of Medicine Louvain,
Belgium (M.D.) 1961

PROFESSIONAL POSITIONS:

1961-1962 Rotating Intern, St. Mary's Hospital, Connecticut.
1963-1966 Pathology Resident, The Mount Sinai Hospital, New York.
1966-1968 Chief of Pathology, U. S. Air Force, Kirtland Air Force Base,
Albuquerque, New Mexico.
1966-1968 Clinical Associate in Pathology, University of New Mexico,
School of Medicine, New Mexico.
1969-1970 Instructor in Pathology, Ohio State University School of Medicine, Ohio.
1970-1972 Associate Pathologist, Vassar Brothers Hospital, New York.
1970-1972 Consultant Pathologist, Castle Point Veterans Administration Hospital.
1970-1972 Consultant Pathologist, Medical Examiner of Dutchess County.
1972-1974 Chief of Pathology, Naval Regional Medical Center, Jacksonville,
Florida.
1974-present Head, Pathology Department, U. S. Naval Medical Research Unit No. 2,
Taipei, Taiwan.
1974-present Chief of Pathology, U. S. Naval Hospital, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

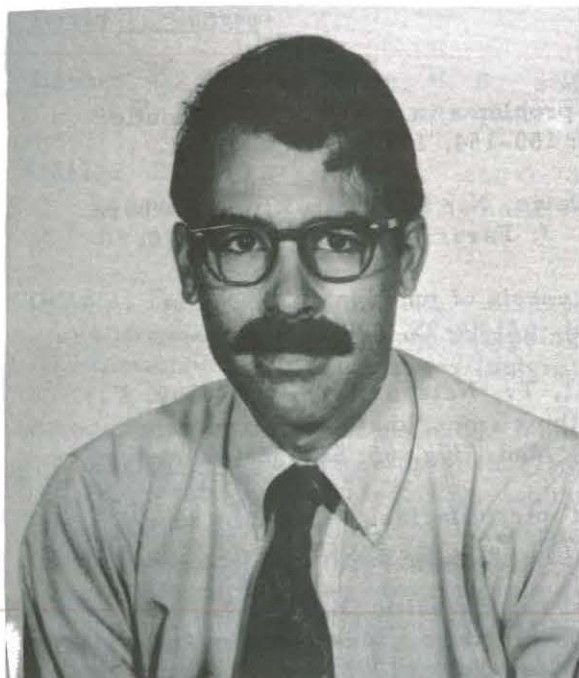
Member of the Committee on Anatomic Pathology, College of American Pathology
Fellow of the College of American Pathology
Fellow of the American Society of Clinical Pathology
American Association of Blood Banks
International Academy of Pathology Royal Society of Health
American Medical Association
Medical Society of the State of New York
Association of Military Surgeons

FIELDS OF INTEREST:

Surgical Pathology and Cytology
Hematology and Immunohematology

CERTIFICATION:

Diplomate American Board of Pathology, Anatomic and Clinical Pathology.



DAVID T. DENNIS
CDR MC USNR
Jakarta Detachment

PLACE AND DATE OF BIRTH:
Portland, Oregon - 31 March 1939

EDUCATIONAL BACKGROUND:

Whitman College (A.B.)	1961
Cornell University Medical College (M.D.)	1965
University of London (D.C.M.T.)	1970
Harvard University, School of Public Health (M.P.H.)	1974

PROFESSIONAL POSITIONS:

1965-1966	Intern, San Francisco General Hospital, University of California Medical Center.
1966-1968	Resident, Internal Medicine, Tulane Medical Service, Charity Hospital of Louisiana, New Orleans.
1968	Fellow, Louisiana State University InterAmerican Program in Tropical Medicine.
1968-1969	Fellow in Medicine, Assistant Physician, New York Hospital-Cornell Medical Center.
1969-1970	National Institutes of Health Postdoctoral Training Fellow, The London School Hygiene and Tropical Medicine.
1970-1971	Medical Officer in Charge, Provincial Health Assistance Program Team N-4, Republic of Viet Nam.
1971-1973	Head, Medical Department and Head, Clinical Investigation Division, NAMRU-3 Research Detachment, Ethiopia.
1973-1974	National Institutes of Health Postdoctoral Training Fellow, Harvard University School of Public Health.
1974-present	Head, Clinical Investigation Division, U. S. Naval Medical Research Unit No. 2 Jakarta Detachment.

PROFESSIONAL SOCIETIES:

American Society of Tropical Medicine
Royal Society of Tropical Medicine and Hygiene
American Society for the Advancement of Science

CERTIFICATION:

American Board of Internal Medicine, Certificate of Qualification, 1969.

PUBLICATIONS:

Miller, G. C. and Dennis, D. T.: Bone and marrow biopsy with saw-toothed modification of Vim-Silverman needle. Lancet 2: 1278, 1968.

Klein, N. C. and Dennis, D. T.: Parasitic problems in practice: Therapeutic guidelines. Part 1. Postgrad. Med. 47: 120-123, 1970.

David T. Dennis

- Klein, N. C. and Dennis, D. T.: Parasitic problems in practice: Therapeutic guidelines. Part 2. Postgrad. Med. 48: 150-154, 1970.
- Dennis, D. T., Despommier, D. D., and Davis, N.: Infectivity of the newborn larva of Trichinella spiralis in the rat. J. Parasit. 56: 974-977, 1970.
- Kean, B. H. and Dennis, D. T.: The pathogenesis of junctional nodules in schistosomiasis. Bull. Soc. Path. Exot. 64: 84-95, 1971.
- Denham, D. A., Dennis, D. T., Ponnudurai, T., Nelson, G. S., and Guy, F.: Comparison of a counting chamber and thick smear methods of counting microfilariae. Trans. Roy. Soc. Trop. Med. Hyg. 65: 521-526, 1971.
- Dennis, D. T. and Kean, B. H.: Isolation of microfilariae: Report of a new method. J. Parasit. 57: 1146-1147, 1971.
- Kean, B. H. and Dennis, D. T.: "Rickettsial and Parasitic Diseases". In: Bronchopulmonary Diseases and Related Disorders. Muschenheim C, and Holman C, editors. Harper & Row, New York, 1972.
- Kean, B. H. and Dennis, D. T.: "Bacillary Dysentery". In: Medicine in the Tropics. Woodruff AW, editor. Churchill Livingstone, London, 1974.
- Dennis, D. T., Tanaka, H., and DeRamos, S. W.: Complement-fixation reactions in schistosomiasis: Quantitative studies. Jap. J. Exp. Med. 42: 445-450, 1972.
- Tanaka, H. and Dennis, D. T., et al.: Evaluation of a modified complement fixation test for schistosomiasis. Jap. J. Exp. Med. 42: 537-542, 1972.
- Dennis, D. T., Doberstyn, E. B., Tesfai, G. K., and Awoke, S.: Chloroquine tolerance of Ethiopian strains of P. falciparum. Trans. Roy. Soc. Trop. Med. Hyg. 68: 241-245, 1974.
- Dennis, D. T., Doberstyn, E. B., Sissay, A., Royer, G. L., and Renis, H. E.: Failure of cytosine arabinoside in treating smallpox: A double-blind study. Lancet ii: 377-379, 1974.
- Sanborn, W. R., Lesmana, M., Dennis, D. T., Kadirman, R. J., Lita, I., and Suyani: Antibiotic-resistant typhoid in Indonesia. Lancet 2(7931): 408-409, 1975.
- Dennis, D. T., Sissay, A., Doberstyn, E. B., and Fresh, J. W.: Bleeding in louse-borne relapsing fever in Ethiopia: clinical and laboratory features in 29 patients. E. Afr. Med. J. (in press)
- Dennis, D. T., McConnell, E., and White, G. B.: Bancroftian filariasis and membrane filters: are night blood surveys necessary? Am. J. Trop. Med. Hyg. (in press)
- McConnell, E., Dennis, D. T., and Asfaha, W.: A survey for Wuchereria bancrofti in Ethiopia. Trop. geog. Med. (in press)

David T. Dennis

Dennis, D. T., Doberstyn, E. B., and Sissay, A.: Response of Ethiopian strains of P. falciparum to amodiaquine.

Dennis, D. T., Kean, B. H., and Goldsmith, E. I.: Schistosomiasis japonica in baboons: extracorporeal hemofiltration, clinical and pathologic features of disease. (submitted).

Dennis, D. T., Gillum, R. L., Sissay, A., and Doberstyn, E. B.: Complement activation in louse-borne relapsing fever: a possible pathogenic role of immunologic mechanisms. (submitted).

Atmosoedjono, S., Partono, F., Dennis, D. T., and Purnomo: Anopheles barbirostris as a vector of the Timor filaria in Flores: preliminary observations. J. Med. Ent. (submitted).

Partono, F., Sri Oemijati, Dennis, D. T., Purnomo, Atmosoedjono, S., and Cross, J. H.: The Timor filaria on Flores and experimental transmission of the parasite. Nature (submitted).

Dennis, D. T., Atmosoedjono, S., Purnomo, Partono, F., and Sulianti Saroso, J.: Timor filariasis: epidemiologic and clinical features in a defined community. The Lancet (submitted).

Purnomo, Partono, F., Dennis, D. T., and Atmosoedjono, S.: Development of the Timor filaria in Aedes togoi: preliminary observations. J. Parasitol. (submitted).

Partono, F., Dennis, D. T., et al.: Grugia timori sp. n. (Nematoda: filarioidea) from Flores, Indonesia. (in preparation).



RICHARD J. BROWN
LT COL USAF VC
Jakarta Detachment

PLACE AND DATE OF BIRTH:
Greeley, Colorado - 30 January 1933

EDUCATIONAL BACKGROUND:
Colorado State University, Ft.
Collins, Colorado (B.S.) 1954
Colorado State University, Ft.
Collins, Colorado (B.S.) 1958
Colorado State University, Ft.
Collins, Colorado (DVM) 1962

PROFESSIONAL POSITIONS:

1954-1962 Pilot, U. S. Air Force.
1962 Re-entered USAF Veterinary Corp, Veterinary Officer Orientation -
Gunter AFB, Ala.
1962-1964 Primate Clinician, 6571st Aerospace Medical Research Laboratory,
Holloman AFB, New Mexico.
Aerospace Pathology, Armed Forces Institute of Pathology, Washington,
D. C.
1966-1969 Resident, Comparative Pathology, Veterinary Pathology Division,
Armed Forces Institute of Pathology, Washington, D. C.
1969-1973 Comparative Pathology, Naval Aerospace Medical Institute, Pensacola,
Fla.
1973-1974 U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1974-present U. S. Naval Medical Research Unit No. 2, Jakarta Detachment.

PROFESSIONAL SOCIETIES:

American College of Veterinary Pathologists
American Veterinary Medical Association
District of Columbia Veterinary Medical Association
Washington Society of Pathologists
Northwest Florida Veterinary Medical Association

PUBLICATIONS:

Brown, R. J.: A method for maintaining chimpanzee medical records, Technical
Documentary Report, ARL TDR 64-5-Holloman Aeromedical Laboratory, April 1964.
Brown, R. J. and Halstead, J.: A high altitude canine oxygen mask. J. Am. Vet.
Med. Assoc. 149: 953-954, 1966.

Richard J. Brown

- Brown, R. J. and Garner, F. M.: Bibliography of Comparative Oncology, International Reference Center for Comparative Oncology, Armed Forces Institute of Pathology, Washington, D. C. 20305, 1967.
- Stahl, C. J., Young, B. C., and Brown, R. J.: Forensic aspects of tear gas pen guns. J. Forensic Sciences, Vol. 13, No. 4, 1968.
- Brown, R. J.: "Shigellosis, Meningoencephalitis, Klebsiella Bronchopneumonia, Coccidioidomycosis," Pathology of Non-Human Primates Study Set, Syllabus, Armed Forces Institute of Pathology, Washington, D. C. 20305, 1968.
- Brown, R. J.: Acanthocephalan myositis in a bush baby. J. Am. Vet. Med. Assoc., Oct. 1, 1969.
- Brown, R. J.: Chronic interstitial nephritis in a streaked tenrec. J. Am. Med. Assoc., Oct. 1969.
- Brown, R. J. and Conran, P. C.: Cap cell hyperplasia in the meninges of a wildebeest. Am. Vet. Med. J. Res., Mar. 1970.
- Brown, R. J.: Osseous metaplasia in the adrenal gland of a two-toed sloth. J. Wildlife Diseases, Jan. 1971.
- Brown, R. J.: Pathologic findings in an aged wombat. In: Proceedings of Wild Life Disease Assoc., Colorado State University, Ft. Collins, Colorado, Aug. 24-29, 1971.
- Garner, F. M. and Brown, R. J.: Diseases of the Blood and Blood Forming Organs, Syllabus, Armed Forces Institute of Pathology Study Set.
- Brown, R. J. and Baker, R. O.: Trypanosomiasis in a mullet. J. Am. Vet. Med. Assoc. 159: 577, 1971.
- Brown, R. J.: Lesions observed at necropsy of mature dogs. Modern Veterinary Practice, pp. 51-54, Sept. 1971.
- Brown, R. J., Trevethan, W. P., and Henry, V. L.: Multiple osteochondroma in a siamese cat. J. Am. Vet. Med. Assoc. 160: 433-435, 1972.
- Brown, R. J., Kupper, J. L., and Trevethan, W. P.: Cutaneous horn in a Rhesus monkey. Lab. Anim. Sc., Vol. 22, No. 1, 1972.
- Brown, R. J., Baker, R. O., Horne, A. F., Kupper, J. L., and Davis, R. D.: Plasmodium infection in the Man of War bird (Fregata magnificens rothschildi) in Navassa Island, West Indies. J. Fla. Vet. Med. Assoc., June 1971.
- Brown, R. J., Kupper, J. L., and Trevethan, W. P.: Malignant lymphoma in a Rhesus monkey. Veterinary Pathology 8: 289-291, 1971.
- Brown, R. J.: Pathology of pompano with whirling disease and Spanish mackerel with enteric cestodiasis. In: Proceedings of the World Mariculture Society, Louisiana State Univ. Press, pp. 132-136, 1971.

Richard J. Brown

- Brown, R. J., Davis, R. D., Trevethan, W. P., and Johnston, N. L.: Basal cell tumor in an indian leopard. J. Wildlife Diseases, Vol. 8, July 1972.
- Brown, R. J.: No attractions for the tourists. U. S. Air Force Medical Service Digest, pp. 5-9, Apr. 1972.
- Brown, R. J., Hinkle, D. K., Trevethan, W. P., Kupper, J. L., and McKee, A. E.: Nosematosis in a squirrel monkey (Saimiri sciureus): First reported case. NAMRL Special Report 72-1. Pensacola, Fla.: Naval Aerospace Medical Research Laboratory, 1972.
- Brown, R. J. and Kupper, J. L.: Parovarian cyst (Hydatid cyst of Morgagni) in a squirrel monkey (Saimiri sciureus). Lab. Anim. Sci. 22: 741-742, 1972.
- Brown, R. J., Fountain, J. E., and Trevethan, W. P.: Equine maduromycosis: A case report. Modern Veterinary Practice. pp. 47-48, Oct. 1972.
- Brown, R. J., Trevethan, W. P., Flowers, L., and Kupper, J. L.: A case of atypical tuberculosis in a northwest Florida canine. J. Fla. Vet. Med. Assoc. p. 21, Dec. 1972.
- Brown, R. J. and Hardman, J.: Hydrocephalus in a newborn Llama. J. Wildlife Diseases, Vol. 9, Apr. 1973.
- Brown, R. J., Johnston, N. L., et al.: Fibrosarcoma in an African elephant. J. Wildlife Diseases, Vol. 9, July 1973.
- Brown, R. J., Hinkle, D. K., Trevethan, W. P., Kupper, J. L., and McKee, A. E.: Nosematosis in a squirrel monkey (Saimiri sciureus). J. Med. Primatol., Summer 1973.
- Brown, R. J., Kupper, J. L., Hixon, W. C., Bowman, J., Baker, R. O., Davis, R. D., Horne, A. F., and Britz, W. E.: Animal disease survey of Navassa Island, West Indies, Special Report 73-3, Naval Aerospace Medical Research Laboratory, Pensacola, Florida, June 1973.
- Brown, R. J., Smith, A. W., and Keyes, M. C.: Sarcocystis in the northern Fur Seal. J. Wild Life, Vol. 10, June 1974.
- Robinson, F. R., Brown, R. J., and Casey, H. W.: References on naturally occurring neoplasms in animals, American Registry of Pathology Armed Forces Institute of Pathology, Washington, D. C., January 1974.
- Brown, R. J., Trevethan, W. P., and Kupper, J. L.: Myocardial Calcification in a Still Born Puppy, Modern Veterinary Medical Practice, April, 1974.
- Smith, A. W., Prato, C. M., Gilmartin, W. G., Brown, R. J., and Keyes, M. C.: A Preliminary Report on Potentially Pathogenic Microbiological Agents Recently Isolated from Pinnipeds. J. Wildlife Diseases 10: 54-59, 1974.

Richard J. Brown

- Kupper, J. L., Britz, W. E., Brown, R. J., and Trevethan, W. P.: Subcuticular Skin Closure in Nonhuman Primate Surgery. Proceedings, 23rd Annual Session of the American Association for Laboratory Animal Science, Oct., 1972.
- Brown, R. J., Carney, P., Van Peenen, P. F. D., and Sudomo, M.: Sarcocystis from Rats in Sulawesi, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 451-452, 1974.
- Brown, R. J., Smith, A. W., and Keyes, M. C.: Lesions Associated with Fatal Hookworm Infections in the Northern Fur Seal. J. Am. Vet. Med. Assn. 165: 804, 1974.
- Smith, A. W., Brown, R. J., Bray, N., and Keyes, M. C.: Leptospira pamona and Reproductive Failure in the California Sea Lion. J. Am. Vet. Med. Assn., Nov. 1, 1974.
- Kupper, J. L., Trevethan, W. P., and Brown, R. J.: Hyperbaric - Hypobaric interaction as they relate to compressed air diving and aviation; Canine experiment. Special report #4, Naval Aerospace Medical Research Laboratory, Sept. 20, 1974.
- Brown, R. J., Cole, W. C., Chang, C. P., and Hsu, S. H.: Renal adenocarcinoma in an owl monkey (Aotus trivirgatus). J. Med. Primatol. 4: 62-64, 1975.
- Brown, R. J., Smith, A. W., and Keyes, M. C.: Renal fibrosarcoma in the northern fur seal. J. Wildlife Diseases 11: 23-25, 1975.
- Brown, R. J., Cross, J. H., Van Peenen, P. F. D., Carney, W. P., and Sulianti Saroso, J.: Research Notes - Capillariid-like eggs in livers of bats from Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 599-600, 1974.
- Brown, R. J., Smith, A. W.: USAF Veterinary Medical Activities in the Pribilof Islands Alaska. USAF Medical Service Digest, Nov.-Dec., 1975.
- Brown, R. J., Carney, W. P., Van Peenen, P. F. D., Cross, J. H., and Sulianti Saroso, J.: Capillariasis in wild rats of Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 219-222, 1975.
- Brown, R. J., Carney, W. P., Sudomo, M., and Simandjuntak, G.: Sarcocystis sp. in the Myocardium of a water buffalo from Sulawesi (Celebes), Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 284-285, 1975.



PETER L. JOSEPH, DVM
Major, USAF VC
Microbiology Department

PLACE AND DATE OF BIRTH:
Lafayette, Louisiana - 27 April 1934

EDUCATIONAL BACKGROUND:
Tuskegee Institute, Alabama
(DVM) 1959
Arizona State University
(M.S.) 1969

PROFESSIONAL POSITIONS:

1959-60	Meat Inspection Division, USDA, Buffalo, New York
1960-63	Area and Depot Veterinarian, RAF Staion, Burtonwood, England
1963-66	Base Veterinarian, Westover Air Force Base, Massachusetts
1966-69	Graduate Student (Microbiology Department), Arizona State University
1969-71	Chief, Microbiology Department, Radiobiology Division, Air Force Weapons Laboratory, Kirtland, Air Force Base, New Mexico.
1971-72	Chief, Veterinary Section, U. S. Air Force Dispensary, Kirtland Air Forve Base, New Mexico
1972-present	Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan

PROFESSIONAL SOCIETIES:

American Veterinary Medical Association
American Soceity for Microbiology
National Association for the Advancement of Science

FIELDS OF INTEREST:

Microbiology, Arbovirology, Epidemiology of Infectious Diseases and Immunopathology.

PUBLICATIONS:

Joseph, P. L., Nelson, D. R., et al.: Laboratory Investigation of a Fused Diatomaceous-
Earth Water Filter. Phase I. AFWL-TR-71-59.



FREDERICK A. HODGE, Ph.D.
LCDR MSC USN
Microbiology Department
Head, Bacteriology/Radiation Biology Division

PLACE AND DATE OF BIRTH:
Durango, Colorado - 10 January 1939

EDUCATIONAL BACKGROUND:

Colorado State University (B.S.)	1964
Colorado State University (M.S.)	1965
Oregon State University (Ph.D.)	1971

PROFESSIONAL POSITIONS:

1961-1963	Personnelman, Pacific Area, U. S. Navy.
1964-1965	Research Assistant, American Cancer Society, Colorado State University, Ft. Collins, Colorado.
1965-1968	Microbiologist, Naval Radiological Defense Laboratory, San Francisco, California.
1968-1971	Graduate Student, Radiation Center, Oregon State University, Corvallis, Oregon.
1971-1973	Microbiologist, Naval Biomedical Research Laboratory, Oakland, California.
1973-present	Microbiologist, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1974-present	Head, Bacteriology/Radiation Biology Division, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Sigma XI
Radiation Research Society
American Society for Microbiology
Society of Protozoologists
American Association for the Advancement of Science
American Institute of Biological Sciences
Association of Military Surgeons of the United States
The New York Academy of Sciences

FIELDS OF INTEREST:

Effects of Ionizing radiation on cells; role of lysosomes in cellular responses to various physical, chemical, and biological agents; mechanisms of division delay in synchronized cells; cell biology of Tetrahymena pyriformis and other protozoa; and medical microbiology.

Frederick A. Hodge

PUBLICATIONS:

- Hodge, F. A. and McClellan, J. F.: Deoxyribonucleic acid synthesis in the giant amoeba Pelomyxa carolinensis. J. Protozool. 13: 26-27, 1966.
- Hodge, F. A., Leif, W. R., and Silverman, M. S.: Susceptibility to infection with Pasteurella tularensis and the immune response of mice exposed to continuous low dose rate gamma radiation. J. Infect. Dis. 120: 356-365, 1969.
- Hodge, F. A. and Silverman, M. S.: The effects of a radioprotective drug, n-decylaminoethane thiosulfuric acid, on susceptibility to infection with live Pasteurella tularensis vaccine. Radiation Effects 1: 145-149, 1969.
- Hodge, F. A. and Nachtwey, D. S.: The relation of lysosomal stability to radiation-induced delay of cell division in Tetrahymena pyriformis. J. Cell Biol. 47: 89a, 1970.
- Hodge, F. A. and Nachtwey, D. S.: X-ray induced delay of cell division in synchronized Tetrahymena: A time - and dose - dependent transition to insensitivity. Radiat. Res. 46: 55a, 1971.
- Hodge, F. A. and Nachtwey, D. S.: The relationship of lysosomal stability to radiation-induced delay of cell division in Tetrahymena pyriformis. Dissertation Abstracts International 32: 1-127, 1971.
- Hodge, F. A. and Nachtwey, D. S.: X-ray-induced delay of cell division in synchronized Tetrahymena pyriformis. Radiat. Res. 52: 603-617, 1972.
- Hodge, F. A., Pribnow, J. F., and Hall, J. M.: Effects of a lysosomal labilizer on the response of the rabbit eye injected with Neisseria meningitidis. Abstracts of the Annual Meeting of the American Society for Microbiology 23-28 April 1972, M97: 96.
- Stewart, R. H., Hodge, F. A., and Silverman, M. S.: Effects of continuous irradiation of mice on the immune response to live Listeria monocytogenes. J. Infect. Dis. 117: 109-115, 1967.
- Silverman, M. S., Greenman, V., McKee, A. E., Hadley, K., Hodge, F. A., and Burriss, C.: Cellular response of mice to infection with Pasteurella tularensis (Live Vaccine Strain) following continuous exposure to low dose gamma radiation. J. Infect. Dis. 120: 366-371, 1969.
- Hodge, F. A.: The behavior of lysosomes during cell division. Tetrahymena News, 1: 5, 1973.

FREDERICK J. SANTANA, Ph.D.
LCDR MSC USN
Medical Ecology Department

PLACE AND DATE OF BIRTH:
San Jose, California - 16 March 1937

EDUCATIONAL BACKGROUND:
San Jose State College,
San Jose, Calif. (B.A.) 1959
University of Arizona,
Tucson, Ariz. (M.S.) 1961
University of Georgia,
Athens, Ga. (Ph.D.) 1972

PROFESSIONAL POSITIONS:

1958 Junior Vector Control Specialist, Bureau of Vector Control and Solid
Waste Management, State of California, Department of Public
Health, Berkeley, California. (Research in Fly Control)
1959-1961 Department of Entomology, University of Arizona, Tucson, Arizona.
(Research in Immature Diptera infesting bacterial decay of the
Giant Saguaro Cactus).
1963 Entomologist, Navy Disease Vector Ecology and Control Center,
Jacksonville, Fla.
1963-1965 Entomologist, Preventive Medicine Unit No. 5, San Diego, California.
1965-1966 Entomologist, Preventive Medicine Unit, Naval Support Activity,
Danang, Republic of Vietnam.
1966-1969 Entomologist, Disease Vector Ecology and Control Center, Alameda,
California.
1969-1972 Duty under instruction, University of Georgia, Athens, Georgia.
1972-present Entomologist/Acarologist, U. S. Naval Medical Research Unit No. 2,
Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Entomological Society of America
Acarological Society of America
Pacific Coast Entomological Society
Entomological Society of Washington
Sigma XI
Zoological Society of San Diego
National Audubon Society

FIELD OF INTEREST:

Taxonomy and biology of the Acarina; disease relationships of arthropods affecting
man and animals; taxonomy and biology of the higher Diptera.

Frederick J. Santana

PUBLICATIONS:

- Holway, R. T., Morrill, A. W., and Santana, F. J.: Mosquito Control Activities of the U. S. Armed Forces in the Republic of Vietnam. Mosq. News, 27: 297-307, 1967.
- Hoogstraal, H., Santana, F. J., and Van Peenen, P. F. D.: Ticks of Mt. Sontra, Danang, Republic of Vietnam. Ann. Entomol. Soc. Amer. 61: 722-729, 1968.
- Hoogstraal, H., El Kammah, K. M., Santana, F. J., and Van Peenen, P. F. D.: Studies on Southeast Asian Haemaphysalis Ticks (Ixodoidea: Ixodidae). H. (Kaiseriana) lagrangei Larrousse: identity, distribution and hosts. J. Parasitol. 59: 1118-1129, 1973.
- Cross, J. H. and Santana, F. J.: Pelodera strongyloides (Schneider) in the Eye Orbit of Taiwan Rodents. Chinese J. Microbiol. 7: 137-138, 1974.
- Cross, J. H. and Santana, F. J.: Isolation of Toxoplasma from a Taiwan Field Mouse, Apodemus agrarius. J. Formosan Med. Assoc. 73: 676-678, 1974.
- Hoogstraal, H. and Santana, F. J.: Haemaphysalis (Kaiseriana) megashimaensis (Ixodoidea: Ixodidae). Human and Wild and Domestic Mammal Hosts and Distribution in Japan, Taiwan and China. J. Parasitol. 60: 866-869, 1974.
- Santana, F. J.: Review of the Genus Trouessartia (Analgoidea: Alloptidae). J. Med. Ent. Suppl. No. 1, 1976.



ERICH E. STAFFORD
LCDR MSC USN
NAMRU-2 Jakarta Detachment

PLACE AND DATE OF BIRTH:
Newfoundland, Kentucky - 2 October 1935

EDUCATIONAL BACKGROUND:

University of Kentucky, Lexington, Kentucky (B.S.)	1960
University of Kentucky, Lexington, Kentucky (M.S.)	1962
Central Baptist School of Medical Technology Central Baptist Hospital, Lexington, Kentucky (A.S.C.P.)	1963
U. S. Naval School for Diving Medical Officers	1968
University of Maryland, College Park, Maryland	1970

PROFESSIONAL POSITIONS:

1962-1963	Clinical Parasitology Instructor, Central Baptist School of Medical Technology, Lexington, Kentucky.
1965-1966	Clinical Laboratory and Blood Bank Officer, USNH Camp Pendleton, California.
1966-1967	Clinical Laboratory and Blood Bank Officer, NSA Hospital Danang, RVN.
1967-1968	Diving Medical Officer Capacity involved in Hyperbaric Research, NMRI, NNMC, Bethesda, Maryland.
1969-1970	Research Parasitologist, Department of Parasitology, NMRI, NNMC, Bethesda, Maryland.
1973-1974	Clinical Parasitology Instructor, NMTI, NNMC, Bethesda, Maryland.
1974-present	Research Parasitologist, NAMRU-2 Jakarta Detachment.

PROFESSIONAL SOCIETIES:

American Society of Parasitologists
Helminthological Society of Washington
American Society of Clinical Pathologists
American Association for the Advancement of Science
Phi Sigma

PUBLICATIONS:

Murrell, K. D., Stafford, E. E., and Dean, D. A.: Immunization against Schistosoma mansoni. Third Int. Cong. of Parasit. 3: 1227-1228, 1974.

Stafford, E. E. and Jackowski, L. A., Jr.: A rapid method of determining worm burden in Intestinal Helminths, Proc. Helm. Soc. Wash. 42: 184-185, 1975.

Murrell, K. D., Dean, D. A., and Stafford, E. E.: Resistance to infection with Schistosoma mansoni after immunization with worm extracts or live cercariae. Am. J. Trop. Med. Hyg. (in press).

Stafford, E. E., Sukaeri, S., and Sutanti, T.: The Bandicoot rat, a new record for Angiostrongylus cantonensis in Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. (in press).



JEROME A. GOLDSBORO, JR.
MAJ VC USA
Head, Veterinary Medicine Department

PLACE AND DATE OF BIRTH:
Bridgeton, New Jersey - 13 December 1939

EDUCATIONAL BACKGROUND:
Tuskegee Institute Alabama
(D.V.M.) 1964

PROFESSIONAL POSITIONS:

1964	Student Detachment MFSS, BAMC, Fort Sam Houston, Texas.
1964-1965	Veterinary Food Inspection Unit, Fort Snelling, Minnesota.
1965-1968	USA Security Agency Field Station, Camp Zama, Japan, Chitose, Japan.
1968-1970	Defense Construction Supply Center, Veterinary Detachment, Columbus, Ohio.
1970	Officer Advance Course MFSS, BAMC, Fort Sam Houston, Texas.
1970-1974	Chief, Vivarium Section, Veterinary Medicine Department, Biomedical Laboratory, Edgewood Arsenal, Maryland.
1974-present	Head, Veterinary Medicine Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Diplomate, American College of Laboratory Animal Medicine
American Veterinary Medical Association
American Association for Laboratory
Animal Science

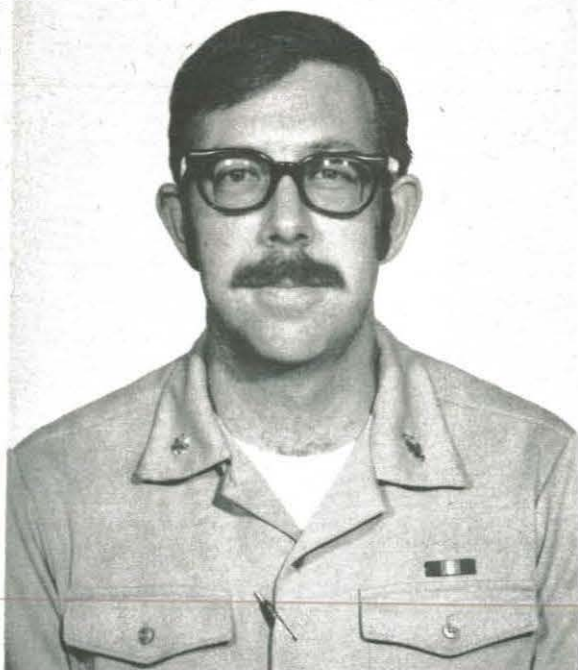
FIELDS OF INTEREST:

Laboratory Animal Medicine, Clinical Medicine and Colony Management, Anthroponosis,
Microbiology and Virology

PUBLICATIONS:

Watson, W. T. and Goldsboro, J. A.: Experimental Pasteurella Multocida and
Bordetella Bronchiseptica Respiratory Infection in Rabbits. Edgewood Arsenal
Publication, June 1974.

Goldsboro, J. A., Raflo, C. P., and Watson, W. T.: A Study to Determine the
Vertical Transmission of Encephalitozoon cuniculi. (In preparation).



JAMES G. OLSON
LCDR MSC USN
Microbiology Department

PLACE AND DATE OF BIRTH:
Palo Alto, California - 16 December 1940

EDUCATIONAL BACKGROUND:

University of California, Santa Barbara (B.A.)	1964
San Jose State College, San Jose (M.A.)	1966
University of California, Berkeley (M.P.H.)	1972
University of California, Berkeley (Ph.D.)	1975

PROFESSIONAL POSITIONS:

1966-1969	U. S. Navy, Medical Service Corp, DIA, Arlington, Virginia.
1969-1971	Medical Ecologist, Deseret Test Center, Salt Lake City, Utah.
1971-1974	Outservice Training, Division of Epidemiology, School of Public Health, University of California, Berkeley, California.
1974-present	Environmental Health Officer, Naval Biomedical Research Laboratory, Naval Supply Center, Oakland, California.
1975-present	Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

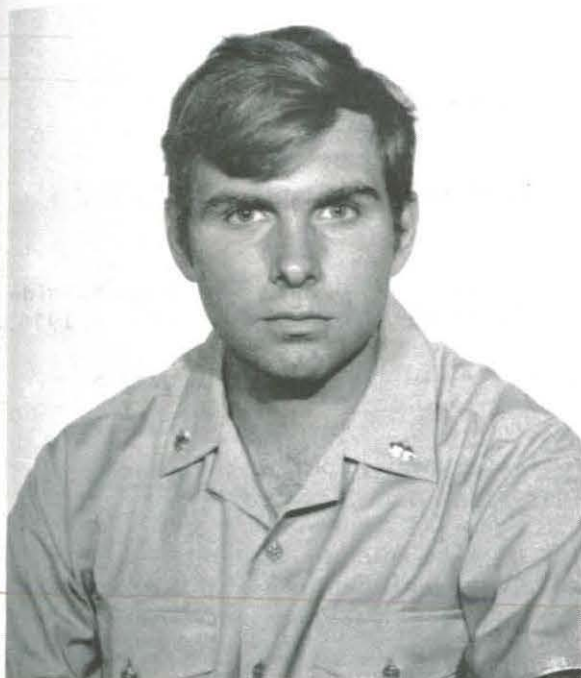
PROFESSIONAL SOCIETIES:

American Museum of Natural History
American Public Health Association
American Society of Tropical Medicine
International Oceanographic Foundation
Society for Epidemiologic Research

PUBLICATIONS:

Olson, J. G.: An Investigation of the Musculature of the Radular Apparatus of Cryptochiton stelleri (Middendorf 1847), Thesis, 1966.

Olson, J. G.: The Impact of Culex tarsalis Population Density upon Human Mosquito-borne Encephalitis in California, Thesis, 1975.



PETER DURAND ECHEVERRIA
LCDR MC USNR
Epidemiology and Clinical Investigation
Department

PLACE AND DATE OF BIRTH:
Palo Alto, California - 19 November 1945

EDUCATIONAL BACKGROUND:
Harvard College (A.B.) 1967
Dartmouth Medical School
(B.M.S.) 1969
Harvard Medical School (M.D.) 1971

PROFESSIONAL POSITIONS:

1969 CMRT, Johns Hopkins Medical School, Calcutta, India.
1971 Tropical medicine elective in Apartado, Columbia, South America,
Harvard School of Public Health.
1971-1972 Internship, Department of Pediatrics, Yale-New Haven Medical
Center, New Have, Conn.
1972-1973 Residency, Department of Pediatrics, Yale-New Haven Medical
Center, New Have, Conn.
1973-1975 Fellow in Infectious Diseases, Children's Hospital and Beth Israel
Hospital, Boston, Mass.
1975-present Epidemiology and Clinical Investigation Department, U. S. Naval
Medical Research Unit No. 2, Taipei, Taiwan.

PUBLICATIONS:

Echeverria, P. D.: Observations concerning infections with beta hemolytic streptococci
not Group A or D, in neonates. J. Pediat. 83: 499, 1973.
Echeverria, P. D., Miller, G., Campbell, A. G. M., and Tuckler, G.: Scalp vesicles
within the first week of life: a clue to the early diagnosis of herpes neonatorum.
J. Pediat. 83: 1062, 1973.
Hillis, W. Biswas, Echeverria, P. D. et al.: Seasonal elevations of plasma transaminase
in rural West Bengal children. Indian J. Med. Res. 61: 777, 1973.
Yogman, M. and Echeverria, P. D.: Scleredema and carditis. Pediat. 52: 108, 1974.

Peter D. Echeverria

- Echeverria, P. D. and Vaughn, M. C.: Tropical pyomyositis. Amer. J. Dis. Child. 129: 856, 1975.
- Echeverria, P. D., Seiber, G., Smith, A. L. et al.: Age dependent dose response to Gentamicin. J. Pediat. 87: 805, 1975.
- Echeverria, P. D., Lew, M., and Smith, A. L.: Apparent emergence of aminoglycoside resistant Escherichia coli in neonatal meningitis. New. Eng. J. Med. 293: 913, 1975.
- Echeverria, P. D., Smith, E. W. P., Ingram, D. et al.: Hemophilus influenzae b pericarditis in children. Pediat. 56: 808, 1975.
- Siber, G., Echeverria, P. D., Smith, A. L. et al.: Gentamicin pharmacokinetics in children and adults. J. Infect. Dis. (In press).
- Echeverria, P. D., Blacklow, N., and Smith, D. H.: The role of heat-labile enterotoxigenic Escherichia coli and reovirus-like agent in diarrhea in Boston children. Lancet (In press).
- Echeverria, P. D., Chang, C. P., Smith, D. H., and Anderson, G. L.: Enterotoxigenicity and invasive capacity of "enterotoxigenic" serotypes of Escherichia coli. J. Pediat. (In press).
- Echeverria, P. D., Siber, G., Smith, A. L.: Age dependent change in Gentamicin pharmacokinetics. Presented at the 14th Interscienic Conference on Antimicrobial Agents and Chemotherapy, San Francisco, September 1974.
- Echeverria, P. D., Smith, A. L., and Smith, D. H.: Quantitative differences in enterotoxigenic Escherichia coli. Presented at the Society for Pediatric Research, Denver, Colorado, April 1975.



CLARENCE H. WHEELING
LT MSC USNR
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Roanoke, Virginia - 28 June 1941

EDUCATIONAL BACKGROUND:
Delta State College,
Cleveland, Mississippi
(B.S.) 1965
University of Mississippi
(Ph.D.) 1971

PROFESSIONAL POSITIONS:

1965-1971 Laboratory Instructor in Medical Parasitology, Department of
Preventive Medicine, University of Mississippi Medical Center,
Jackson, Mississippi.
1971-1972 Research Technician, Department of Medicine, University of
Mississippi Medical Center, Jackson, Mississippi.
1972-present Medical Ecology Department, U. S. Naval Medical Research Unit
No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Beta Beta Beta
Sigma XI

FIELD OF INTEREST:

Serodiagnosis of parasitic diseases; field parasitology.

PUBLICATIONS:

- Wheeling, C. H. and Hutchison, W. F.: Disc electrophoresis and immunoelectrophoresis of soluble extracts of Dirofilaria immitis. Jap. J. Exp. Med. 41: 171-176, 1971.
- Wheeling, C. H. and Keegen, H. L.: The effects of scorpion venom on the tarantula Aphonopelma smithi (Cambridge). Accepted for publication in Toxicon.
- Gundelfinger, B. F., Wheeling, C. H., Lien, J. C., Atmosoedjono, S., and Simanjuntak, C. H.: Observations on malaria in Indonesian Timor. Am. J. Trop. Med. Hyg. 24: 393-396, 1975.
- Wheeling, C. H., Gundelfinger, B. F., Lien, J. C., Atmosoedjono, S., and Simanjuntak, C. H.: Filariasis in Indonesian Timor. Am. J. Trop. Med. Hyg. 24: 897-898, 1975.

Clarence H. Wheeling

Carney, W. P., Cross, J. H., Wheeling, C. H., Purnomo, Sudomo, M., and Simandjuntak, G.: Natural infection of Echinococcus granulosus in dogs from Sulawesi, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 385-389, 1974.

Wheeling, C. H.: A Review of the Biology of the Chinese and Formosan Strains of Schistosoma japonicum. Proceedings of the SEAMEO Seminar - Workshop on "Schistosomiasis in Southeast Asia and the Far East." 10-14 June 1975, Bangkok. (In press).



A. LOUIS BOURGEOIS, Ph.D.
LTJG MSC USNR
Head, Biochemistry Department

PLACE AND DATE OF BIRTH:
Philadelphia, Pennsylvania - 12 May 1949

EDUCATIONAL BACKGROUND:
Rutgers University
New Brunswick, N. J. (B.S.) 1971
Georgetown University School of
Medicine and Dentistry,
Washington, D. C. (Ph.D.) 1975

PROFESSIONAL POSITIONS:

1972-1974 Graduate Teaching Assistant in Medical Microbiology, Georgetown
University School of Medicine and Dentistry, Washington, D. C.
1975-present Head, Biochemistry Department, U. S. Naval Medical Research
Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Sigma XI
American Society for Microbiology

FIELDS OF INTEREST:

Medical Microbiology; host-parasite interactions in disease; role of bacterial
L-forms in disease; interactions that occur between parasites and macrophages.

PUBLICATIONS:

Bourgeois, L. and Beaman, B. L.: Possible L-forms of Nocardia in cultured
macrophages. Abst. Ann. Meeting of the Amer. Soc. for Microbiol. 6244, 1973.

Bourgeois, L. and Beaman, B. L.: Probable L-forms of Nocardia asteroides
induced in cultured mouse peritoneal macrophages. Infect. Immunity. 9: 576-
590, 1974.

Bourgeois, L. and Beaman, B. L.: In vitro induction of spheroplasts and L-forms
in the pathogenic Nocardia. Abst. Ann. Meeting of the Amer. Soc. for
Microbiol. I. 55, 1975.





DUANE J. GUBLER
LT MSC USNR
Jakarta Detachment

PLACE AND DATE OF BIRTH:
Santa Clara, Utah - 4 June 1939

EDUCATIONAL BACKGROUND:

Utah State University, Logan (B.S.)	1963
University of Hawaii, Honolulu (M.S.)	1965
The Johns Hopkins University, MD. (Sc. D.)	1969

PROFESSIONAL POSITIONS:

1961	Laboratory Assistant in Zoology, College of Southern Utah.
1963-1965	Field Entomologist at the University of Hawaii.
1965	Laboratory Instructor Economic Entomology, University of Hawaii.
1966	Laboratory Instructor in Medical Entomology, The Johns Hopkins University.
1969	Instructor, Diagnostic Parasitology, The Johns Hopkins University.
1969-1971	Project Director, The dynamics of transmission of <u>Wuchereria bancrofti</u> in Calcutta.
1969-1971	Project Director, Dynamics of natural populations of <u>Aedes albopictus</u> .
1969-1971	Principal Investigator, Medical Entomology, The Johns Hopkins University Center for Medical Research & Training, Calcutta, India.
1970-1971	Assistant Professor, Department of Pathobiology, School of Hygiene and Public Health, The Johns Hopkins University.
1971-1974	Assistant Professor of Tropical Medicine, University of Hawaii School of Medicine.
1972	Consultant in American Samoa on an epidemic of dengue fever.
1972	Consultant to the National Academy of Sciences Committee on Herbicides in Viet Nam and Thailand.
1973	Temporary Advisor, Pan American Health Organization, Principal Instructor of a workshop in Puerto Rico on the use of mosquitoes for isolation and assay of dengue viruses.
1974	Consultant in the Kingdom of Tonga on an epidemic of dengue fever.
1974	Consultant, World Health Organization, on epidemiology of filariasis in Indonesia.
1974-1975	Associate Professor of Tropical Medicine, University of Hawaii School of Medicine.
1975-present	U. S. Naval Medical Research Unit No. 2, Jakarta Detachment

Duane J. Gubler

FIELDS OF INTEREST:

Filariasis epidemiology and transmission of dengue fever virus.

PUBLICATIONS:

- Gubler, D. J.: A comparative study on the distribution, incidence and periodicity of the canine filarial worms Dirofilaria immitis Leidy and Dipetalonema reconditum Grassi in Hawaii. J. Med. Entomol. 3: 159-167, 1966.
- Gubler, D. J.: A method for the in vitro cultivation of ovarian and midgut cells from the adult mosquito. Amer. J. Epidemiol. 87: 592-598, 1968.
- Gubler, D. J.: A study of comparative biology and interspecific competition between Aedes (Stegomyia) albopictus Skuse and Aedes (Stegomyia) polynesiensis Marks, Doctor of Sci. thesis, The Johns Hopkins University School of Hygiene and Public Health, 219 pp., 1969.
- Gubler, D. J.: Induced sterility in Aedes (Stegomyia) polynesiensis Marks by cross-insemination with Aedes (Stegomyia) albopictus Skuse. J. Med. Entomol. 7: 65-70, 1970.
- Gubler, D. J.: Competitive displacement of Aedes (Stegomyia) polynesiensis Marks by Aedes (Stegomyia) albopictus Skuse in laboratory populations. J. Med. Entomol. 7: 229-235, 1970.
- Gubler, D. J.: Comparisons on the reproductive potentials of Aedes (Stegomyia) albopictus Skuse and Aedes (Stegomyia) polynesiensis Marks. Mosqu. News 30: 201-209, 1970.
- Gubler, D. J.: Studies on the comparative oviposition behavior of Aedes (Stegomyia) albopictus Skuse and Aedes (Stegomyia) polynesiensis Marks. J. Med. Ento. 9: 675-682, 1971.
- Gubler, D. J. and Bhattacharya, N. C.: Observations on the reproductive history of Aedes (Stegomyia) albopictus in the laboratory. Mosq. News 31: 356-359, 1971.
- Gubler, D. J. and Bhattacharya, N. C.: Risk of exposure to Wuchereria bancrofti in a suburb of Calcutta, India, Presented at the 9th SEAMEO-TROPED Seminar, Tokyo, July 1971.
- Gubler, D. J. and Bhattacharya, N. C.: Susceptibility of Aedes (Stegomyia) albopictus to infection with periodic Wuchereria bancrofti. Bull. Cal. School Trop. Med. 18: 41-43, 1970.
- Gubler, D. J. and Bhattacharya, N. C.: Swarming and Mating of Aedes (S.) albopictus in nature. Mosq. News 32: 219-223, 1972.
- Gubler, D. J. and Bhattacharya, N. C.: A survey for bancroftian filariasis in the Calcutta area. Ind. J. Med. Res. 61: 8-11, 1973.
- Gubler, D. J., Inui, T. S., Black, H. R., and Bhattacharya, N. C.: Comparisons of microfilaria density in blood sampled by finger-prick, venipuncture and mosquitoes. Amer. J. Trop. Med. Hyg. 22: 174-178, 1973.

Duane J. Gubler

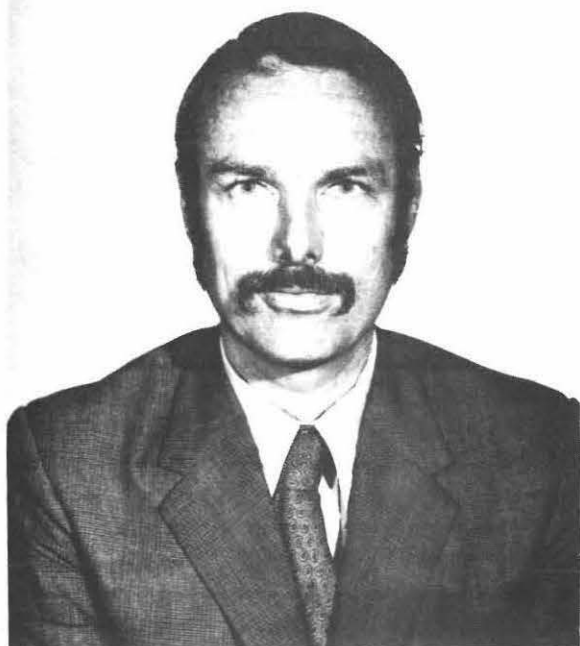
Gubler, D. J. and Bhattacharya, N. C.: A quantitative approach to the study of bancroftian filariasis. Amer. J. Trop. Med. Hyg. 23: No. 6, 1974.

Larsen, W. P. and Gubler, D. J.: Romalea in the embryology laboratory. Turtox News 40: 263, 1962.

Yeager, V. L. and Gubler, D. J.: Protein histochemistry of lathyric periosteum. Arch. Pathol. 76: 158-165, 1963.

Lowrie, R. C. and Gubler, D. J.: A timesaving method for the rearing of mosquitoes in the laboratory. Mosq. News 28: 115, 1968.

Rosen, L. and Gubler, D. J.: The use of mosquitoes to detect and propagate dengue viruses. Amer. J. Trop. Med. Hyg. 23: No. 6, 1974.



R. PALMER BEASLEY, M.D.
Head, Epidemiology and Clinical
Investigation Department

PLACE AND DATE OF BIRTH:
Glendale, California - 29 April 1936

EDUCATIONAL BACKGROUND:
Dartmouth College, Hanover
N. H. (A.B.) 1958
Harvard Medical School, Boston,
Mass. (M.D.) 1962
University of Washington,
Seattle (M.S.) 1969

PROFESSIONAL POSITIONS:

1962-1963	Intern, King County Hospital, Seattle.
1963-1965	Epidemic Intelligence Officer, Epidemiology Branch, CDC, USPHS, Assigned Investigations Sections, Atlanta, Georgia.
1965	Inactive Reserve Commission as Surgeon, USPHS.
1965-1967	Resident, Internal Medicine, University of Washington, Seattle.
1967-1969	Senior Fellow, Department of Preventive Medicine, University of Washington School of Medicine, Seattle.
1969-1970	Assistant Professor, Department of Preventive Medicine, University of Washington School of Medicine, Seattle.
1970-1972	Assistant Professor, Department of Medicine, University of Washington School of Medicine, Seattle.
1970-1972	Assistant Professor, Department of Epidemiology and International Health, School of Public Health and Community Medicine, University of Washington, Seattle.
1970-1971	Faculty, Graduate Summer Session in Epidemiology, University of Minnesota.
1972-present	Associate Professor, Department of Epidemiology and International Health, School of Public Health and Community Medicine, University of Washington, Seattle.
1972-present	Adjunct Associate Professor, Department of Medicine, University of Washington School of Medicine, Seattle.
1972-present	Visiting Scientist, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1974-present	Head, Epidemiology and Clinical Investigation Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1975-present	Visiting Professor of Microbiology, National Taiwan University School of Medicine, Taipei, Taiwan.

R. Palmer Beasley, M. D.

PROFESSIONAL SOCIETIES:

Action Committee for Childhood Immunization (Executive Board)
Aesculapian Club
American Federation for Clinical Research
American Public Health Association, Fellow, Membership Committee
Epidemiology Section
American Rheumatism Association
American Society of Internal Medicine
Boylston Society
EIS Alumni Prize Committee (1969-1972; Chairman, 1970-1972)
Seattle Zoological Society, Board of Directors; 1971-1974
Society for Epidemiologic Research (President-Elect, 1971)
Sydenham Society

CERTIFICATION:

Diplomate American Board of Internal Medicine
Diplomate American Board of Preventive Medicine

PUBLICATIONS:

Beasley, R. P.: Human Plague in the United States, J.A.M.A. 208: 1024-1025, 1969. (Letter)

Detels, R., Grayston, J. T., Kim, K. S. W., Chen, K. P., Gutman, L., Gale, J. L., and Beasley, R. P.: The efficacy of HPV-77 rubella vaccine in prevention of disease. International Symposium on Rubella Vaccines, London 1968; Symp. Series Immunobiol. Standard 11: 365-370, Ed., Karger, Basel/New York, 1969.

Detels, R., Kim, K. S. W., Gale, J. L., Beasley, R. P., and Grayston, J. T.: Studies of the 1968 rubella epidemic on Taiwan. International Symposium on Rubella Vaccines, London, 1968; Symp. Series Immunobiol. Standard 11: 43-48, Ed., Karger, Basel/New York, 1969.

Grayston, J. T., Detels, R., Chen, K. P., Gutman, L., Kim, K.S.W., Gale, J. L., and Beasley, R. P.: Field trial of live attenuated rubella vaccine during an epidemic on Taiwan: Preliminary report of efficacy of three HPV-77 strain vaccines in the prevention of clinical rubella. J.A.M.A. 207: 1107-1110, 1969.

Gale, J. L., Detels, R., Kim, K.S.W., Beasley, R. P., and Grayston, J. T.: The epidemiology of rubella on Taiwan. Amer. J. Dis. Child. 118: 143-145, 1969.

Detels, R., Grayston, J. T., Kim, K.S.W., Chen, K.P., Gale, J. L., Beasley, R. P., and Gutman, L.: Prevention of clinical and subclinical rubella infection: Efficacy of three HPV-77 derivative vaccines. Amer. J. Dis. Child. 118: 295-300, 1969.

Beasley, R. P., Detels, R., Kim, K.S.W., Gale, J. L., Lin, T. L., and Grayston, J. T.: Prevention of rubella during an epidemic on Taiwan: HPV-77 and RA 27/3 rubella vaccine administered subcutaneously and intranasally HPV-77 vaccine mixed with mumps and/or measles vaccines. Amer. J. Dis. Child. 118: 301-306, 1969.

R. Palmer Beasley, M. D.

- Beasley, R. P.: Dilemmas presented by live attenuated rubella vaccines. *Amer. J. Epidemiol.* 92: 158-161, 1970.
- A collaborative report. A waterborne epidemic of salmonellosis in Riverside, California, 1965: Epidemiological aspects. *Amer. J. Epidemiol.* 93: 33-48, 1971.
- Beasley, R. P. and Grayston, J. T.: Experimental Pneumococcal Pneumonia: Homologous and Heterologous Challenge Studies in Monkeys. *Clin. Research* 20: 138, 1971. (Abstract)
- Beasley, R. P. and Willkens, R. F.: High Prevalence of Rheumatoid Arthritis in Yakima Indians. *Clin. Research* 20: 136, 1971. (Abstract)
- Gale, J. L., Grayston, J. T., Beasley, R. P., Detels, R., and Kim, K. S. W.: The epidemiology of rubella on Taiwan: II. 1968-1969 epidemic. *Int. J. Epidemiol.* 1: 253-260, 1972.
- Gale, J. L., Detels, R., Kim, K. S. W., Beasley, R. P., Chen, K. P., and Grayston, J. T.: The Epidemiology of rubella on Taiwan: III. Family studies in cities of high and low attack rates. *Int. J. Epidemiol.* 1: 261-265, 1972.
- Kenny, G. E., Wentworth, B. B., Beasley, R. P., and Foy, H. M.: Correlation of circulating capsular polysaccharide with bacteremia in pneumococcal pneumonia. *Infect. Immun.* 6: 431-437, 1972.
- Beasley, R. P.: Abortion Surveillance in Washington State. *Clin. Research* 20: 225, 1972. (Abstract)
- Beasley, R. P., Retailliau, H., and Healey, L. A.: Prevalence of rheumatoid arthritis in Alaskan Eskimos. *Arth. Rheum.* 16: 737-742, 1973.
- Beasley, R. P., Willkens, R. F., and Bennett, P. H.: High prevalence of rheumatoid arthritis in Yakima Indians. *Arth. Rheum.* 16: 743-748, 1973.
- Beasley, R. P. and Su Hong-Ji: Lack of Effect of HBsAg-Positive Sera on Tobacco Plants. *Lancet* 1203-04, 1973. (Letter)
- Beasley, R. P. and Stevens, C. E.: Epidemiology of hepatitis B infection in Taiwan. *Proc. Internat. Sympos. on Hepatitis, Taipei*, 1-10, March 1974.
- Stevens, C. E., Tsui, J. J., and Beasley, R. P.: Vertical transmission of hepatitis B antigen in Taiwan. *Proc. Internat. Sympos. on Hepatitis, Taipei*, 10-25, March 1974.
- Beasley, R. P., Tsui, J. J., and Stevens, C. E.: Hepatitis B antigen occurrence in families in Taiwan. *Proc. Internat. Sympos. on Hepatitis, Taipei*, 27-33, March 1974.
- Anderson, K. E., Stevens, C. E., Tsui, J. J., Lee, W. C., Sun, M. S., and Beasley, R. P.: Hepatitis B antigen in infants born to mothers with chronic hepatitis B antigenemia in Taiwan. *Amer. J. Dis. Child.* 129: 1389-1392, 1975.

R. Palmer Beasley, M. D.

- Stevens, C. E., Beasley, R. P., Tsui, J. J., and Lee, W. C.: Vertical transmission of hepatitis B antigen in Taiwan. *New Eng. J. Med.* 292: 771-774, 1975.
- Bruce, R. A., Pao, Y. L., Ting, N., Chiang, B. N., Li, Y. B., Chiang, S. T., Alexander, E. R., Beasley, R. P., and Fisher, L. D.: Seven year follow-up of cardiovascular study and maximal exercise testing in Chinese men. *Circulation* 51: 890-901, 1975.
- Peterson, D. R., Cooney, M. K., and Beasley, R. P.: Felidae and Toxoplasma Antibody Prevalence Among Alaskan Natives. *J. Infec. Dis.* 130: 557-563, 1975.
- Beasley, R. P.: Transmission of Hepatitis by Breast Feeding. *New. Eng. J. Med.* 292: 1354, 1975 (Letter)
- Yeh, L. J., Yang, C. Y., Beasley, R. P., Gale, J. L., Wang, S. P., and Grayston, J. T.: Studies of Trachoma in Families on Taiwan. *Chinese J. Microbiol.* 8: 120-131, 1975.
- Sun, S. C., Beasley, R. P., Anderson, K. E., Berg, H. S., Hsu, C. P., and Lee, W. C.: Serial Liver Biopsy Observations in Hepatitis B Antigen Carriers by Light and Electron Microscopy. *Amer. J. Dig. Dis.* (In press 1975)
- Beasley, R. P., Stevens, C. E., Shiao, I. S., and Meng, H. C.: Evidence Against Breast Feeding as a Mechanism for Vertical Transmission of Hepatitis B. *Lancet* 740-741, 1975.



JOHN H. CROSS, Ph.D.
GS-15
Scientific Director and
Head, Medical Ecology Department

PLACE AND DATE OF BIRTH:

Lynn, Massachusetts-25 September 1925

EDUCATIONAL BACKGROUND:

Miami University, Oxford, Ohio (B.A.)	1953
Miami University, Oxford, Ohio (M.A.)	1955
University of Texas Medical Branch, Galveston, Texas (Ph.D.)	1958

PROFESSIONAL POSITIONS:

1953-1955	Graduate Teaching Assistant, Miami University, Oxford, Ohio.
1955-1958	Research Assistant, The University of Texas Medical Branch, Galveston, Texas.
1958-1960	Research Associate, The University of Texas Medical Branch, Galveston, Texas.
1960	Louisiana State University Fellow in Tropical Medicine, Central America.
1960-1961	Instructor, Department of Microbiology, University of Arkansas, School of Medicine, Little Rock, Arkansas.
1961-1965	Assistant Professor, Department of Microbiology, University of Arkansas, School of Medicine, Little Rock, Arkansas.
1964	Training Fellow, Institute of Acarology, Ohio State University.
1965-1967	Associate Professor, Department of Microbiology, University of Arkansas, School of Medicine, Little Rock, Arkansas.
1966-present	Head, Department of Medical Ecology, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1967-present	Visiting Professor, Department of Parasitology, National Taiwan University Medical School, Taipei, Taiwan.
1968-present	Visiting Professor, Department of Biomorphics, National Defense Medical Center, Taipei, Taiwan.
1968-1970	Clinical Associate Professor, Department of Preventive Medicine, University of Washington, School of Medicine, Seattle, Washington.
1970-present	Clinical Associate Professor, Department of Epidemiology and International Health, School of Public Health, University of Washington, Seattle, Washington.
1974-present	Scientific Director, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

John H. Cross

PROFESSIONAL SOCIETIES:

American Society of Parasitologists
Society for Experimental Biology and Medicine
American Society of Tropical Medicine and Hygiene
Sigma XI
Helminthological Society of Washington
Chinese Society of Microbiology
Malaysian Society of Parasitology
Korean Society of Parasitology
Japanese Society of Parasitology
Philippine Society of Parasitology

CERTIFICATION:

Diplomat American Board of Microbiology

PUBLICATIONS:

- Cross, J. H. and Scott, J. A.: Natural Immunity of the White Rat to the Mouse Parasite Nematospiroides dubius Baylis, 1926. (Nematoda: Heligmosomidae). J. Parasit. 42: 15-16, 1956.
- Scott, J. A., MacDonald, E. M., and Cross, J. H.: Difference in Susceptibility of Rice Rats and Cotton Rats to Various Strains of Filarial Worms. J. Parasit. 43: 44, 1957.
- Cross, J. H.: Natural Resistance of the White Rat to the Mouse Parasite Nematospiroides dubius Baylis. J. Parasit. 44: 1347-1348, 1958.
- Cross, J. H., Dawson, C., Scott, J. A., and MacDonald, E. M.: Dilution Egg Counts of Nematospiroides dubius in Mice and Rats. J. Parasit. 44: 32, 1958.
- Scott, J. A. and Cross, J. H.: Natural Resistance of Closely Related Species of Hosts. 7th International Congress of Microbiology (Stockholm) pp. 184, 1958.
- Scott, J. A. and Cross, J. H.: Immunity Produced by Two Strains of Litomosoides carinii in Gerbils and Cotton Rats. J. Parasit. 45: 37-38, 1959.
- Cross, J. H.: The Natural Resistance of the White Rat to Nematospiroides dubius and the Effect of Cortisone on this Resistance. J. Parasit. 46: 175-185, 1960.
- Cross, J. H. and Scott, J. A.: Nematospiroides dubius in the Mongolian Gerbil. J. Parasit. 46: 38, 1960.
- Cross, J. H. and Scott, J. A.: A Modified Method for the Culture and Isolation of Larvae of Intestinal Nematodes. J. Parasit. 47: 26, 1961.
- Cross, J. H.: Recent Developments in Parasitology. J. Am. Med. Tech. 23: 434-438, 1961.
- Cross, J. H. and Duffy, C. E.: Nematospiroides dubius Infections in Suckling Rats. J. Parasit. 48: 52, 1962.
- Cross, J. H.: Sparaganosis in Two Members of an Arkansas Family. J. Parasit. 48: 154, 1963.

John H. Cross

- Cross, J. H. and Duffy, C. E.: Nematospiroides dubius in the Abnormal Host. Ann. N. Y. Acad. Sci. 113: 88-89, 1963.
- Cross, J. H.: Immunity to Nematospiroides dubius in the Mongolian Gerbil. J. Parasit. 50: 25, 1964.
- Cross, J. H., Galbraith, R. C., and Cox, M. F.: Nippostrongylus brasiliensis Infection in the Thirteen-lined Ground Squirrel. J. Parasit. 50: 27, 1964.
- Cross, J. H.: Susceptibility of the Syrian Hamster to Early Post-natal Infections with Nematospiroides dubius. J. Parasit. 51: 52-53, 1965.
- Cross, J. H. and Thomas, R. M.: Hydatid Disease in the Nurtia. J. Parasit. 52: 1215-1216, 1966.
- Chang, P. K. and Cross, J. H.: Eosinophilic Meningoencephalitis Caused by Angiostrongylus cantonensis: Report of a Human Infection and a New Intermediate Host. J. Formosan Med. Assoc. 65: 53-54, 1966.
- Cross, J. H.: Review of Angiostrongyliasis in Taiwan South Pacific Commission Seminar on Helminthiasis and Eosinophilic Meningitis Noumea. New Caledonia, 5-16, June 1967.
- Cross, J. H., Murrell, K. D., and Tsai, S. H.: A Sample Survey for Intestinal Parasites with Comparison of Techniques. J. Formosan Med. Assoc. 66: 645-646, 1967.
- Cates, M. D., McCroddan, D. M., Lien, J. C., and Cross, J. H.: Notes on Laboratory Procedures for Japanese Encephalitis Research at NAMRU-2. Thailand J. Med. 1967.
- Murrell, K. D., Cross, J. H., and Tsai, S. H.: Preliminary Report on the Hemagglutination Test for Amebiasis in Taiwan. J. Formosan Med. Assoc. 66: 646, 1967.
- Liu, J. C. and Cross, J. H.: Current Status of Paragonimiasis Among Rural School Children in Taipei Hsien, Taiwan. J. Formosan Med. Assoc. 66: 646-647, 1967.
- Cross, J. H., Murrell, K. D., Watten, R. H., and Dizon, J. J.: Capillariasis in the Philippines. 8th International Congress on Tropical Medicine and Malaria, Teheran, Iran. 1968.
- Cross, J. H., Murrell, K. D., and Tsai, S. H.: An Evaluation of Diagnostic Techniques in a Sample Survey for Intestinal Parasites. Chinese J. Microbiol. 1: 117-124, 1968.
- Cross, J. H., Hsu, M. Y., and Huang, C. K.: Natural Occurring Trypanosome Infections in the Taiwan Monkey. Chinese J. Microbiol. 1: 159, 1968.
- Chang, P. K., Cross, J. H., and Chen, S.S.S.: Aquatic Snails as Intermediate Host for Angiostrongylus cantonensis on Taiwan. J. Parasit. 54: 182-183, 1968.

John H. Cross

- Lien, J. C. and Cross, J. H.: Plasmodium (vinckeia) watteni sp. N. from the Formosan Giant Flying Squirrel, Petaurista petaurista grandis. J. Parasit. 54: 1171-1174, 1968.
- Thatcher, V. E., Sousa, O. E., and Cross, J. H.: Echinococcus oligarthrus (Diesing, 1963) Developing in a United States Zool. J. Parasit. 54: 847-848, 1968.
- Cross, J. H.: New Helminthic Diseases of Man. J. Formosan Med. Assoc. 67: 462-463, 1968.
- Lien, J. C., Cross, J. H., and Hsu, M. Y.: Experimental Studies of Plasmodium inui of Taiwan Monkey, Macaca cyclopis. J. Formosan Med. Assoc. 67: 527-528, 1968.
- Yii, C. Y., Chen, C. Y., Fresh, J. W., Chen, T., and Cross, J. H.: Human Angiostrongyliasis Involving the Lungs. Chinese J. Microbiol. 1: 148-150, 1968.
- Hsu, S. H., Cross, J. H., and Lai, P. Y.: In vitro Cultivation of Trypanosoma lewisi in Arthropod Tissue Culture. Chinese J. Microbiol. 1: 158, 1968.
- Jones, G. S. and Cross, J. H.: Mammal-borne Anthropozoonoses in Taiwan. Chinese J. Microbiol. 1: 160, 1968.
- Whalen, G. E., Rosenberg, E. B., Strickland, G. T., Gutman, R. A., Cross, J. H., Watten, R. H., Uylangco, C., and Dizon, J. J.: Intestinal Capillariasis. A New Disease in Man. The Lancet, pp. 13-16, 1969.
- Detels, R., Gutman, L., Jaramillo, J., Zerrudo, E., Banzon, T., Valera, J., Murrell, K. D., Cross, J. H., and Dizon, J. J.: An Epidemic of Human Intestinal Capillariasis: A Study in a Barrio in North Luzon. Am. J. Trop. Med. Hyg. 18: 676-682, 1969.
- Murrell, K. D., Cross, J. H., and Jones, G. S.: Armillifer Larvae in a Ferret-badger (Melogale personata) from South Vietnam. Bull. Wildlife Disease Assoc. 5: 144-145, 1969.
- Tsai, C. S. and Cross, J. H.: Anisakis-like Larvae in Marine Fish of Taiwan. Chinese J. Microbiol. 2: 139-142, 1969.
- Drutz, D. J., Cross, J. H., and Stulberg, S. D.: Autochthonous Leishmaniasis on Taiwan. J. Formosan Med. Assoc. 68: 589, 1969.
- Cates, M. D., McCroddan, D. M., Huang, W. C., Chiu, S. F., Lien, S. C., Lin, P. C., and Cross, J. H.: Japanese Encephalitis Virus Surveillance in Taiwan. 1. Isolations from Mosquitoes 1967-1968. J. Formosan Med. Assoc. 68: 663-665, 1969.
- Cross, J. H., Lien, J. C., and Hsu, M. Y.: Toxoplasma Isolated from the Formosan Giant Flying Squirrel. J. Formosan Med. Assoc. 68: 678-683, 1969.
- Cross, J. H.: Fasciolopsiasis in Southeast Asia and the Far East: A Review. Proceedings of the Fourth Southeast Asia Seminar on Parasitology and Tropical Medicine, Schistosomiasis and Other Snail-Transmitted Helminthiasis. pp. 177-199, 1969.

John H. Cross

- Cross, J. H., Banzon, T., Murrell, K. D., Clarke, M. D., Watten, R. H., and Dizon, J. J.: Experimental Transmission of Capillaria philippinensis. Proceedings the 7th SEAMEO Tropical Medicine Seminar on Infectious Diseases of the Gastrointestinal System in Southeast Asia and the Far East. 28 September - 2 October 1970, Taipei, Taiwan., pp. 265-272.
- Tsai, C. S. and Cross, J. H.: The Mass Treatment of Taenia saginata with Bithionol. Japanese J. Parasit. 20: 177-180, 1971.
- Clarke, M. D., Khaw, O. K., and Cross, J. H.: Clonorchiasis in Sun Moon Lake Area. Chinese J. Microbiol. 4: 50-60, 1971.
- Liu, J. C. and Cross, J. H.: Paragonimiasis westermani among Rural School Children in Taipei County, Taiwan. Chinese J. Microbiol. 4: 97-105, 1971.
- Forman, D. W., Tong, M. J., Murrell, K. D., and Cross, J. H.: Etiologic Study of Diarrheal Disease in Vietnam. Am. J. Trop. Med. Hyg. 18: 598-601, 1971.
- Cross, J. H., Murrell, K. D., and Cates, M. D.: Survey for Intestinal Parasites in Aborigines in Nantou County, Central Taiwan with a Report of Two Spurious Infections of Macracanthorhynchus hirudinaceus. Chinese J. Microbiol. 4: 116-122, 1971.
- Bruce, J. I., Okabe, K., Crum, J. W., Cross, J. H., and Chiu, J. K.: Utilization of Carbohydrates by Clonorchis sinensis. Chinese J. Microbiol. 4: 195-199, 1971.
- Kundin, W. D., Schaeffer, B. T., and Cross, J. H.: Sarcocystis sp. in a Taiwan Pig. Chinese J. Microbiol. 4: 263-264, 1971.
- Jones, G. S., Lim, M. L., and Cross, J. H.: A Key to the Mammals of Taiwan. Chinese J. Microbiol. 4: 267-278, 1971.
- Wang, H. C., Gale, J. L., Irving, G. S., Lien, J. C., and Cross, J. H.: Scrub Typhus in Hualien, 1970. J. Formosan Med. Assoc. 70: 635, 1971.
- Cross, J. H., Lien, J. C., Huang, W. C., Lien, S. C., Chiu, S. F., Kuo, J., Chu, H. H., and Chang, Y. C.: Japanese Encephalitis Virus Surveillance in Taiwan. II. Isolation from Mosquitoes and Bats in Taipei Area 1969-1970. J. Formosan Med. Assoc. 70: 681-686, 1971.
- Manoon Bhaibulaya and Cross, J. H.: Angiostrongylus malaysiensis (Nematoda: Metastrongylidae), a New Species of Rat Lung-worm from Malaysia. Southeast Asian J. Trop. Med. Pub. Hlth. 2: 527-533, 1972.
- Khaw, O. K. and Cross, J. H.: Human Intestinal Parasites on Green Island, Taiwan. Chinese J. Microbiol. 5: 94, 1972.
- Khaw, O. K., Cross, J. H., and Hung, C. K.: Isolation of Trichomonas vaginalis by Cultural Methods. Chinese J. Microbiol. 5: 96, 1972.

John H. Cross

- Cross, J. H.: Clonorchiasis in Taiwan: A Review. Proceedings of the Fourth Southeast Asia Seminar on Parasitology and Tropical Medicine, Schistosomiasis and Other Snail-Transmitted Helminthiasis. pp. 231-242, 1969.
- Detels, R., Cates, M. D., Cross, J. H., Irving, G. S., and Watten, R. H.: Ecology of Japanese Encephalitis Virus on Taiwan in 1968. Am. J. Trop. Med. Hyg. 19: 716-723, 1970.
- Cross, J. H., Kundin, W. D., Jones, G. S., Gaba, A. M., Jososoedarno, S., and Gunawan, S.: Trichosomoides in the Nasal Cavity of Java Rats. J. Parasit. 56: 566, 1970.
- Cross, J. H., Chen, S. S. S., and Lu, S. K.: Further Studies on the Development of Angiostrongylus cantonensis in the Formosan Mongoose. J. Parasit. 56: 838-839, 1970.
- Hsu, S. H., Mao, W. H., and Cross, J. H.: Establishment of a Line of Cells Derived from Ovarian Tissue of Culex quinquefasciatus Say. J. Med. Ent. 7: 703-707, 1970.
- Cross, J. H., Banzon, T., Murrell, K. D., Watten, R. H., and Dizon, J. J.: A New Epidemic Diarrheal Disease Caused by the Nematode Capillaria philippinensis. Industry and Tropical Health VII: 124-130, 1970.
- Cross, J. H., Gunawan, S., Gaba, A., Watten, R. H., and Sulianti Saroso, J.: Survey for Human Intestinal and Blood Parasites in Bojolali, Central Java, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 1: 354-360, 1970.
- Tsai, C. S. and Cross, J. H.: Oocysts of Toxoplasma gondii in the Feces of an Experimentally Infected Cat. Southeast Asian J. Trop. Med. Pub. Hlth. 1: 556-557, 1970.
- Hsu-Kuo, M. Y., Lien, J. C., and Cross, J. H.: Studies on Trypanosoma conorhini. Chinese J. Microbiol. 3: 148-149, 1970.
- Liu, J. C., Whalen, G. E., and Cross, J. H.: Capillaria Ova in Human Sputum. J. Formosan Med. Assoc. 69: 80-82, 1970.
- Cross, J. H., Editor, Proceedings the 7th SEAMEO Tropical Medicine Seminar on Infectious Diseases of the Gastrointestinal System in Southeast Asia and the Far East. 28 September - 2 October 1970, Taipei, Taiwan.
- Wang, L. T. and Cross, J. H.: Studies on the Pathogenicity of Some Asian Strains of Entamoeba histolytica in the Laboratory Rat. Proceedings the 7th SEAMEO Tropical Medicine Seminar on Infectious Diseases of the Gastrointestinal System in Southeast Asia and the Far East. 28 September - 2 October 1970, Taipei, Taiwan., pp. 309-310.
- Tsai, S. H., Liao, S. S., Murrell, K. D., Hsieh, L., and Cross, J. H.: Amebic Liver Abscess in Central Taiwan: Experiences with Over 2000 Cases and an Evaluation of the Indirect Hemagglutination Serological Test. Proceedings the 7th SEAMEO Tropical Medicine Seminar on Infectious Diseases of the Gastrointestinal System in Southeast Asia and the Far East. 28 September - 2 October 1970, Taipei, Taiwan., pp. 317-318.

John H. Cross

- Cross, J. H.: Amebiasis. Yuan-Pei Institute of Medical Technology, 3: 1-5, 1972.
- Cross, J. H., Banzon, T., Clarke, M. D., Basaca-Servilla, V., Watten, R. H., and Dizon, J. J.: Studies on the Experimental Transmission of Capillaria philippinensis in Monkeys. Trans. Roy. Soc. Trop. Med. Hyg. 66: 819-827, 1972.
- Watten, R. H., Bechner, W. M., Cross, J. H., Gunning, J.-J., and Jarimillo, J.: Clinical Studies on Capillariasis Philippinensis. Trans. Roy. Soc. Trop. Med. Hyg. 66: 828-834, 1972.
- Tsai, C. S., Chine, J. G., and Cross, J. H.: Experimental Treatment of Toxoplasmosis in Mice: Effects of Spiramycin, Acetyl-Spiramycin, Pyrimethamine, and Sulfamonomethoxine Singly and in Combinations. Chinese J. Microbiol. 6: 31-36, 1973.
- Wang, L. T., Jen, G., and Cross, J. H.: Establishment of Entamoeba histolytica from Liver Abscess in Monoxenic Cultures with Hemoflagellates. Am. J. Trop. Med. Hyg. 22: 30-32, 1973.
- Clarke, M. D., Cross, J. H., Gunning, J.-J., Reynolds, D., Sri Oemijati, Partono, F., Hudojo, and Hadi: Human Malaria and Intestinal Parasites in Kresek, West Java, Indonesia, with a Cursory Serological Survey for Toxoplasmosis and Amoebiasis. Southeast Asian J. Trop. Med. Pub. Hlth. 4: 32-36, 1973.
- Clarke, M. D., Cross, J. H., Carney, W. P., Bechner, W. M., Sri Oemijati, Partono, F., Hudojo, Arbain, J., and Noermhajati: A Parasitological Survey in the Jogjakarta Area of Central Java, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 4: 195-201, 1973.
- Cross, J. H.: Immunodiagnosis of Some Parasitic Diseases of the Respiratory System. J. Formosan Med. Assoc. 72: 407-412, 1973.
- Cross, J. H., Watten, R. H., et al.: Discussion - On Papers Presented at the Meeting of the Society on 26th October, 1972. Published in Trans. Roy. Soc. Trop. Med. Hyg. 66: 819-828: 1. Studies on the Experimental Transmission of Capillaria philippinensis in Monkeys. 2. Clinical Studies on Capillariasis Philippinensis. Trans. Roy. Soc. Trop. Med. Hyg. 67: 38-40, 1973.
- Cross, J. H., Fresh, J. W., Jones, G. S., and Gunawan, S.: Research Notes - Sarcocystis from Rats of Central Java. Southeast Asian J. Trop. Med. Pub. Hlth. 4: 435, 1973.
- Cross, J. H., Kuo, M. Y., and Lien, J. C.: Accidental Human Infection with Plasmodium cynomolgi bastianellii. Southeast Asian J. Trop. Med. Pub. Hlth. 4: 481-483, 1973.
- Partono, F., Cross, J. H., Purnomo, and Sri Oemijati: Evaluation of Thick Smear, Knott and Membrane Filtration Methods for Demonstrating Microfilariae in Blood. Trop. geogr. Med. 25: 286-289, 1973.

John H. Cross

- Cross, J. H. and Hung, C. K.: Pneumocystis carinii in Taiwan Rats. Chinese J. Microbiol. 5: 96, 1972.
- Clarke, M. D., Jones, R. J., and Cross, J. H.: Experimental Intermediate Hosts for Hexametra sp. (Ascaridae) from the Taiwan Bamboo Viper. Chinese J. Microbiol. 5: 97, 1972.
- Fresh, J. W., Cross, J. H., Reyes, V., Whalen, G. E., Uylangco, C. V., and Dizon, J. J.: Nicropsy Findings in Intestinal Capillariasis. Am. J. Trop. Med. Hyg. 21: 169-173, 1972.
- Hsu, S. H., Li, S. Y., and Cross, J. H.: A Cell Line Derived from Ovarian Tissue of Culex tritaeniorhynchus summorosus Dyar. J. Med. Ent. 9: 86-91, 1972.
- Cross, J. H.: Some Tissue Invading Protozoan Parasites of Man on Taiwan. The 19th Regional Meeting of the Formosan Med. Assoc. at Kaohsiung, 6-7 May, 1972.
- Bruce, J. I., Ruff, M. D., Hansen, B. D., Chiu, J. K., and Cross, J. H.: Paragonimus westermani: Influence of Carbohydrates on Respiration of Four Geographic Strains with Comparison to P. ohirai and P. iloktsuenensis. Southeast Asian J. Trop. Med. Pub. Hlth. 3: 87-92, 1972.
- Durfee, P. T. and Cross, J. H.: A Catalogue of the Zoonoses of Taiwan. J. Formosan Med. Assoc. 71: 509-524, 1972.
- Partono, F., Hudojo, Sri Oemijati, Noor, N., Borahina, Cross, J. H., Clarke, M. D., Irving, G. S., and Duncan, C. F.: Malayan Filariasis in Margolembo, South Sulawesi, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 3: 537-547, 1972.
- Partono, F., Cross, J. H., Borahina, and Sri Oemijati: Observations on the Diurnal Diagnosis of Filariasis After a Single Dose of Hetrazan. Southeast Asian J. Trop. Med. Pub. Hlth. 3: 367-370, 1972.
- Cross, J. H., Clarke, M. D., Irving, G. S., Duncan, C. F., Partono, F., Hudojo, Sri Oemijati, Noor, N., and Borahina: Intestinal Parasites and Malaria in Margolembo, Luwu Regency, South Sulawesi, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 3: 587-593, 1972.
- Kundin, W. D., Chen, W. F., Cross, J. H., and Irving, G. S.: Isolation of Toxoplasma during Unsuccessful Attempts to Isolate Rickettsiae from Swine and Rodents in Taiwan. Chinese J. Microbiol. 5: 118-121, 1972.
- Pinardi Hadidjaja, Carney, W. P., Clarke, M. D., Cross, J. H., Jusuf, A., Sulianti Saroso, J., and Sri Oemijati: Schistosoma japonicum and Intestinal Parasites of the Inhabitants of Lake Lindu, Sulawesi (Celebes); A Preliminary Report. Southeast Asian J. Trop. Med. Pub. Hlth. 3: 594-599, 1972.
- Tsai, C. S. and Cross, J. H.: Serologic Observations of Human Toxoplasmosis on Taiwan. Chinese J. Microbiol. 5: 122-125, 1972.

John H. Cross

- Partono, F., Cross, J. H., Borahima, Lien, J. C., and Sri Oemijati: Malaria and Filariasis in a Transmigration Village Eight and Twenty-two Months after Establishment. *Southeast Asian J. Trop. Med. Pub. Hlth.* 4: 484-486, 1973.
- Lo, C. T., Chen, S. N., and Cross, J. H.: Antigen Analysis of Fasciolopsis buski (Lankester). Ninth International Congress of Tropical Medicine and Malaria, Athens, Greece, October 14-21, 1973.
- Joesoef, A., Carney, W. P., Hoedojo, Hadi, S., Sulianti Saroso, J., Sri Oemijati, Cross, J. H., Clarke, M. D., Partono, F., Lien, J. C., and Watten, R. H.: Filariasis in Transmigration Settlements of Indonesia. Ninth International Congress of Tropical Medicine and Malaria, Athens, Greece, October 14-21, 1973.
- Cross, J. H., Banzon, T. C., Singson, C. N., Basaca-Servilla, V., and Watten, R. H.: Zoonotic Aspects of Capillaria philippinensis. Ninth International Congress of Tropical Medicine and Malaria, Athens, Greece, October 14-21, 1973.
- Sulianti Saroso, J., Joesoef, A., Carney, W. P., Clarke, M. D., Cross, J. H., Sri Oemijati, Anderson, K. E., Gunning, J-J., and Watten, R. H.: Schistosomiasis in Indonesia, Human Aspects. Ninth International Congress of Tropical Medicine and Malaria, Athens, Greece, October 14-21, 1973.
- Carney, W. P., Van Peenen, P. F. D., Tanudjaja, S., Sudomo, M., Djajasasmita, M., Wioreno, W., Clarke, M. D., Cross, J. H., Sulianti Saroso, J., and Watten, R. H.: Echinostomiasis Lindoensis: A Disease that Disappeared. Ninth International Congress of Tropical Medicine and Malaria, Athens, Greece, October 14-21, 1973.
- Clarke, M. D., Carney, W. P., Cross, J. H., Pinardi Hadidjaja, Sri Oemijati, and Joesoef, A.: Schistosomiasis and Other Human Parasitoses of Lake Lindu in Central-Sulawesi (Celebes), Indonesia. *Am. J. Trop. Med. Hyg.* 23: 385-391, 1974.
- Gale, J. L., Irving, G. S., Wang, L. T., Lien, J. C., Chen, W. F., and Cross, J. H.: Scrub Typhus in Eastern Taiwan 1970. *Am. J. Trop. Med. Hyg.* 23: 679-684, 1974.
- Wang, L. T. and Cross, J. H.: Pathogenicity of Five Asian Strains of Entamoeba histolytica in Laboratory Rats. *Chinese J. Microbiol.* 7: 30-35, 1974.
- Wang, L. T. and Cross, J. H.: Research Note - Studies on the Stability of the Hemagglutinating Antibody of Entamoeba histolytica. *Chinese J. Microbiol.* 7: 60-61, 1974.
- Wang, L. T. and Cross, J. H.: Human Sparganosis on Taiwan: A Report of Two Cases. *J. Formosan Med. Assoc.* 73: 173-177, 1974.
- Durfee, P. T., Ma, C. H., Wang, C. F., and Cross, J. H.: Research Note - Infectivity and Pathogenicity of Toxoplasma Oocysts for Swine. *J. Parasit.* 60: 886-887, 1974.

John H. Cross

- Lo, C. T. and Cross, J. H.: In Vitro Cultivation of Fasciolopsis buski. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 252-257, 1974.
- Wang, L. T., Jen, G., and Cross, J. H.: Axenic Cultivation of Four Strains of Entamoeba histolytica from Liver Abscesses. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 365-367, 1974.
- Cross, J. H. and Manoon Bhaibulaya: Validity of Angiostrongylus malaysiensis Bhaibulaya and Cross, 1971. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 374-378, 1974.
- Carney, W. P., Cross, J. H., Wheeling, C. H., Purnomo, Sudomo, M., and Simandjuntak, G.: Natural Infection of Echinococcus granulosus in Dogs from Sulawesi, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 385-389, 1974.
- Cross, J. H.: Ecological and Cultural Aspects of Human Trematodiasis in the Far East. Third International Congress of Parasitology, Munich, Germany, August 25-31, 1974, 1:534-535.
- Wheeling, C. H., Carney, W. P., Cross, J. H., Purnomo, Sudomo, M., and Simandjuntak, G.: A Review of Echinococcus granulosus in Southeast Asia and a Report on a Natural Infection from Sulawesi, Indonesia. Third International Congress of Parasitology, Munich, Germany, August 25-31, 1974, 1: 552-553.
- Cross, J. H., Partono, F., Hsu, M. Y., Ash, L. R., and Sri Oemijati: Development of Wuchereria bancrofti in the Mongolian Gerbil and Taiwan Monkey. Third International Congress of Parasitology, Munich Germany, August 25-31, 1974, 2: 613.
- Singson, C. N., Banzon, T. C., and Cross, J. H.: Effectiveness of Mebendazole in the Treatment of Intestinal Capillariasis. Third International Congress of Parasitology, Munich, Germany, August 25-31, 1974, 3: 1361-1362.
- Cross, J. H. and Santana, F. J.: Pelodera strongyloides (Schneider) in the Eye Orbit of Taiwan Rodents. Chinese J. Microbiol. 7: 137-138, 1974.
- Cross, J. H. and Santana, F. J.: Isolation of Toxoplasma from a Taiwan Field Mouse, Apodemus agrarius. J. Formosan Med. Assoc. 73: 676-678, 1974.
- Sun, S. C., Cross, J. H., Berg, H. S., Kau, S. L., Singson, C., Banzon, T., and Watten, R. H.: Ultrastructural Studies of Intestinal Capillariasis - Capillaria philippinensis in Human and Gerbil Hosts. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 524-533, 1974.
- Brown, R. J., Van Peenen, P. F. D., Carney, W. P., Cross, J. H., and Sulianti Saroso, J.: Capillariid-like Eggs in Livers of Bats from Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 599-600, 1974.
- Hsu, S. H., Wong, W. J., and Cross, J. H.: Japanese Encephalitis Virus Plaque Formation in Culex tritaeniorhynchus Cell Monolayers. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 1-2, 1975.

John H. Cross

- Cross, J. H., Clarke, M. D., Durfee, P. T., Irving, G. S., Taylor, J., Partono, F., Joesoef, A., Hudojo, and Sri Oemijati: Parasitology Survey and Seroepidemiology of Amebiasis in South Kalimantan (Borneo), Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 52-60, 1975.
- Yii, C. Y., Chen, C. Y., Chen, E. R., Hsieh, H. C., Shih, C. C., Cross, J. H., and Rosen, L.: Epidemiologic Studies of Eosinophilic Meningitis in Southern Taiwan. Am. J. Trop. Med. Hyg. 24: 447-454, 1975.
- Tesh, R. B., Gajdusek, D. C., Carruto, R. M., Cross, J. H., and Rosen, L.: The Distribution and Prevalence of Group A Arbovirus Neutralizing Antibodies Among Human Populations in S. E. Asia and the Pacific Island. Am. J. Trop. Med. Hyg. 24: 664-675, 1975.
- Hsu, S. H., Wang, B. T., Huang, M. H., Wong, W. J., and Cross, J. H.: Growth of Japanese Encephalitis Virus in Culex tritaeniorhynchus Cell Cultures. Am. J. Trop. Med. Hyg. 24: 881-888, 1975.
- Cross, J. H.: Comparative Study on Methods of Culturing and Isolating Larvae of Nematospiroides dubius. Chinese J. Microbiol. 8: 64-65, 1975.
- Lien, J. C., Kosman, L., Partono, F., Joesoef, A., Kosin, E., and Cross, J. H.: A Brief Survey of Mosquitoes in North Sumatra, Indonesia. J. Med. Entomol. 12: 233-239, 1975.
- Chung, P. R. and Cross, J. H.: Prevalence of Intestinal Parasites in Children on a Taiwan Offshore Island Determined by the Use of Several Diagnostic Methods. J. Formosan Med. Assoc. 74: 411-418, 1975.
- Chen, T. Y. and Cross, J. H.: Subcutaneous Sparganosis - A Case Report. J. Formosan Med. Assoc. 74: 515-516, 1975.
- Lee, R., Cross, J. H., Irving, G. S., Lane, C., and Watten, R. H.: Surveillance of Some Infectious Diseases Among Aircrew Personnel in Southeast Asia. Aviation, Space, and Environmental Medicine: 1152-1154, 1975.
- Durfee, P. T., Sung, H. T., Ma, C. H., Tsai, C. S., and Cross, J. H.: Serologic Study of Toxoplasmosis in Taiwan. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 170-174, 1975.
- Brown, R. J., Van Peenen, P. F. D., Sulianti Saroso, J., Carney, W. P., and Cross, J. H.: Capillariasis in Wild Rats of Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 219-222, 1975.
- Singson, C. N., Banzon, T. C., and Cross, J. H.: Mebendazole in the Treatment of Intestinal Capillariasis. Am. J. Trop. Med. Hyg. 24: 932-934, 1975.
- Clarke, M. D., Cross, J. H., Carney, W. P., Hadidjaja, P., Joesoef, A., Putrali, J., and Sri Oemijati: Serological Study of Amebiasis and Toxoplasmosis in the Lindu Valley, Central Sulawesi, Indonesia. Trop. geogr. Med. 27: 274-278, 1975.

John H. Cross

- Cross, J. H. and Hung, C. K.: Latent Pneumocystis carinii Infections in Some Mammals from Taipei Hsien, Taiwan. Formosan Med. Assoc. 74: 564-567, 1975.
- Cross, J. H. and Santana, F. J.: Trichosomoides nasalis in the Nasal Chamber or Rattus coxinga on Taiwan. Chinese J. Microbiol. 8: 183-184, 1975.
- Lo, C. T. and Cross, J. H.: Experimental Second Intermediate Hosts for Echinostoma revolutum. Chinese J. Microbiol. 8: 185-187, 1975.
- Durfee, P. T., Cross, J. H., Rustam, and Susanto: Toxoplasmosis in Man and Animals in South Kalimantan (Borneo), Indonesia. Am. J. Trop. Med. Hyg. 25: 42-45, 1976.
- Cross, J. H.: Diagnostic Methods in Other Tissue Helminthiasis Including Angiostrongyliasis, Gnathostomiasis and Trichinosis: A Review. SEAMEO Trop. Med. Technical Meeting Series. Diagnostic Methods for Important Helminthiasis and Amebiasis in Southeast Asia and the Far East. 5-8 February 1974, Tokyo. (In press).
- Cross, J. H.: Diagnostic Methods in Intestinal Fluke Infections: A Review. SEAMEO Trop. Med. Technical Meeting Series. Diagnostic Methods for Important Helminthiasis and Amebiasis in Southeast Asia and the Far East. 5-8 February 1974, Tokyo. (In press).
- Detels, R., Cross, J. H., Huang, W. C., Lien, J. C., and Chen, S.: Japanese Encephalitis Virus in Northern Taiwan, 1969-1973. Am. J. Trop. Med. Hyg. (In press).
- Cross, J. H., Clarke, M. D., Cole, W. C., Lien, J. C., Partono, F., Djakaria, Arbain Joesoef, and Sri Oemijati: Parasitic Infections in Humans in West Kalimantan (Borneo), Indonesia. Trop. geogr. Med. (In press).
- Partono, F. and Cross, J. H.: Suspected Congenital Toxoplasmosis in Indonesia. Trop. geogr. Med. (In press).
- Cross, J. H., Clarke, M. D., Carney, W. P., Putrali, J., Arbain Joesoef, Sajidiman, H., Partono, F., Hudojo, and Sri Oemijati: Parasitology Survey in the Palu Valley, Central Sulawesi (Celebes), Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. (In press).
- Cross, J. H.: Preliminary Observations on the Biology of the Indonesian Strain of Schistosoma japonicum: Experimental Transmission in Laboratory Animals and Oncomelaniid Snails. Proceedings of the SEAMEO Seminar - Workshop on "Schistosomiasis in Southeast Asia and the Far East." 10-14 June 1975, Bangkok. (In press).
- Cross, J. H.: Schistosomiasis Japonica in China: A Brief Review. Proceedings of the SEAMEO Seminar - Workshop on "Schistosomiasis in Southeast Asia and the Far East." 10-14 June 1975, Bangkok. (In press).
- Cross, J. H., Clarke, M. D., Cole, W. C., Lien, J. C., Partono, F., Arbain Joesoef, and Kosin, E. H.: Parasitology Survey in North Sumatra, Indonesia. J. Trop. Med. Hyg. (In press).
- Cross, J. H., Irving, G. S., and Gunawan, S.: The Prevalence of Entamoeba histologica and Toxoplasma gondii antibodies in Central Java, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. (In press).

John H. Cross

Partono, F. and Cross, J. H.: Toxoplasma antibodies in Indonesian and Chinese Medical Students in Jakarta. Southeast Asian J. Trop. Med. Pub. Hlth. (In press).

Lo, C. T. and Cross, J. H.: New Oncomelania hupensis Foci on Taiwan. J. Parasit. (Submitted).

Brown, R. J., Carney, W. P., Cross, J. H., and Sulianti Saroso, J.: Capillaria Hepatitis in the Indonesian House Shrew, Suncus murinus. Southeast Asian J. Trop. Med. Pub. Hlth. (Submitted).

Turner, R. W., Kundin, W. D., Turner, B. M., Soeharto, A. P., and Cross, J. H.: Intranasal Nematodes (Trichosomoides nasalis) and Intranasal Chiggers from Four Species of Rats in Central Java, Indonesia. J. Parasit. (Submitted).



RICHARD SEE, M.A., CDP
GS-14
Head, Data Processing Department

PLACE AND DATE BIRTH:
Hackensack, N. J. - 3 December 1923

EDUCATIONAL BACKGROUND:
Harvard College, Cambridge, Mass.
(B. A.) 1949
University of Oslo 1949
University of California, Berkeley
(M. A.) 1952

PROFESSIONAL POSITIONS:

1958-1962	Professional Assistant, National Science Foundation, Washington, D. C.
1959-1963	Chairman, Interagency Committee on Mechanical Translation Research.
1959-1964	Chinese Translator, U. S. Joint Publications Research Service, Washington, D. C.
1961-present	Reviewer, Mathematical Reviews.
1962-1964	Deputy Program Director, Documentation Research Program, National Science Foundation, Washington, D. C.
1962-1965	Chinese Translator, American Mathematical Society, Providence, R. I.
1964-1966	Program Director, Information Systems Program, National Science Foundation, Washington, D. C.
1965-1967	Member, Panel 2, Committee on Scientific and Technical Information (COSATI), Federal Council on Science and Technology.
1966-1967	Program Director, Research and Studies Program, National Science Foundation, Washington, D. C.
1967-1970	Chief, Research and Development Branch, National Library of Medicine, Bethesda, Maryland.
1970-present	Head, Data Processing Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1971-present	Faculty Member, Far East Division, University of Maryland, Taipei, Taiwan.
1971-1972	Visiting Professor, Institute of Public Health, National Taiwan University, Medical School, Taipei, Taiwan.
1972-1973	Consultant, National Science Council, Republic of China.
1974-present	Faculty Member, Los Angeles City College, Overseas, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

American Mathematical Society
American Society of Tropical Medicine and Hygiene
American Statistical Association
Association for Computing Machinery

Richard See

FIELDS OF INTEREST:

Epidemiology, Man-Machine Interactions in Data Processing, Information Retrieval.

PUBLICATIONS:

See, R.: Mechanical Translation and Related Language Research. *Science* 144: 621-626, 1964.

See, R.: *La Traduzione Automatica*. *Sapere* 657, 1964.

See, R.: Machine-Aided Translation and Information Retrieval. Chapter 8 of *Electronic Handling of Information*, Thompson Book Co., 1967.

See, R., Editor: *The Information Programs of the National Library of Medicine*, 1969.

See, R.: Finite State Representation of Interactive Languages, FDT, ACM Special Interest Committee on File Description and Translation, 1: 44-46, 1969.

Atmosoedjono, S., Van Peenen, P. F. D., See, R., and Sulianti Saroso, J.: Man-Biting Activity of Aedes Aegypti in Jakarta, Indonesia. *Mosquito News* 32: 467-469, 1972.

Atmosoedjono, S., Van Peenen, P. F. D., Joseph, S. W., Sulianti Saroso, J., and See, R.: Observations on Possible Culex Arbovirus Vectors in Jakarta, Indonesia. *Southeast Asian J. Trop. Med. Pub. Hlth.* 4: 108-112, 1973.

Hsu, C. C., See, R., and Lin, C. C.: Assessment of Learning Potential of Chinese Children with Raven's Standard Progressive Matrices. *J. Formosan Med. Assoc.* 72: 658-670, 1973. (In Chinese)

Watten, R. H., Kuntz, R. E., Burke, J. C., and See, R.: Results of Skin Testing for Trematode Infections on Taiwan. *Abstracts of Invited Papers and Communications, Ninth International Congress of Tropical Medicine and Malaria (Athens), NAMRU-2 Report*, Jan. 1974.

See, R.: Statistics with a Simple, Inexpensive Electronic Calculator. *Am. J. Med. Technology*, 40: 179-184, 1974.

Van Peenen, P. F. D., Light, R. H., Duncan, J. R., See, R., Sulianti Saroso, J., Boeadi, J., and Carney, W. P.: Observations on Rattus Bartelsii (Rodentia: Muridae). *Treubia* 28: 83-117, 1974.

Hsu, C. C., See, R., and Lin, C. C.: A Six-year Longitudinal Study of Chinese Children's Response to Raven's Progressive Matrices. *J. Formosan Med. Assoc.* 73: 451-460, 1974. (In Chinese)

Van Peenen, P. F. D., Joseph, S. W., Ansari Saleh, Light, R. H., Sukaeri, S., and See, R.: The Indonesian Developmental Area Study: Observations on Mammals from South and East Kalimantan (Borneo). *Southeast Asian J. Trop. Med. Pub. Hlth.* 5: 390-397, 1974.

Van Peenen, P. F. D., Anderson, K. E., See, R., and Nasution, R.: Serological Evidence of Arbovirus Infection in Febrile Patients in Jakarta, Indonesia during 1970-1971. *J. Trop. Med. Hyg.* 77: 244-246, 1974.

Richard See

- Van Peenen, P. F. D., Sunoto, Sumarmo, Sulianti Saroso, J., Sinto, S., Joseph, P. L., and See, R.: Dengue with Hemorrhage and Shock in Jakarta, Indonesia. *J. Trop. Pediat. Environmental Child Hlth.* (In press).
- Van Peenen, P. F. D., Joseph, S., Casals, J., Sulianti Saroso, J., and See, R.: Arbovirus Antibodies in Indonesians at Malili, South Sulawesi (Celebes) and Balikpapan, E. Kalimantan (Borneo). *Ann. Trop. Med. Parasitol.* (In press).
- Van Peenen, P. F. D., Gundelfinger, B. F., See, R., Carney, W. P., Putrali, J., Sulianti Saroso, J., Cross, J. H., and Irving, G. S.: Disease Survey of Palolo Valley, Central Sulawesi, Indonesia. I. Description of the area and the sample. II. Intestinal Parasites, Malaria, and Filariasis. III. Serological Findings. *Mil. Med.* (In press).
- Van Peenen, P. F. D., Lien, J. C., Santana, F. J., and See, R.: Correlation of Chigger Abundance with Temperature at a Hyperendemic Focus of Scrub Typhus. (In press).



CHIEH PAO CHANG, D. V. M.
Veterinary Medicine Department

PLACE AND DATE OF BIRTH:
Tainan, Taiwan - 1 July 1939

EDUCATIONAL BACKGROUND:
National Taiwan University
(B.S.) 1964
Ministry of Examination and
Selection, R. O. C. (D. V. M.) 1965

PROFESSIONAL POSITIONS:

1964-1965 Military Service, Second Lieutenant, ROTC.
1965-present Veterinarian, Veterinary Medicine Department, U. S. Naval
Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Taiwan Association of Veterinary Medicine
Chinese Society of Veterinary Science
Chinese Society of Microbiology

FIELDS OF INTEREST:

Laboratory Animal Medicine and Zoonosis

PUBLICATIONS:

Chang, C. P., Del Favero, J. E., and Chiang, H. S.: Survey of Bovine
Anaplasmosis in Taiwan. J. Taiwan Assn. Anim. Husb. Vet. Med. 13:
24-27, 1968.

Chang, C. P., Pryor, W. H., Jr., Chiang, H. S., and Raulston, G. L.:
Natural and Experimental Infections of the Taiwan Monkey of Zoonotic
Significance. J. Taiwan Assn. Husb. Vet. Med. 15: 17-26, 1969.

Pryor, W. H., Jr., Chang, C. P., and Raulston, G. L.: Urolithiasis in a
Taiwan Monkey (*Macaca cyclopis*), A literature review and case report.
Lab. Anim. Care 19: 862-865, 1969.

Pryor, W. H., Jr., Chang, C. P., and Raulston, G. L.: Dichlorvos: An
Anthelmintic for Primate Trichuriasis. Lab. Anim. Care 20: 1118-
1122, 1970.

Chieh Pao Chang

- Yang, J. P. S., Durfee, P. T., Ma, C. H., Chang, C. P., and New, A. E.: An Epizootic of Aujeszky's Disease in Swine in Taiwan: Virus Isolation, Identification, and Seroepidemiological Studies. *Chinese J. Microbiol.* 5: 69-75, 1972.
- Taylor, J. F., New, A. E., Chang, C. P., and Chiang, H. S.: Baseline Blood Determinations of the Taiwan Macaque (Macaca cyclopis). *Lab. Anim. Sci.* 23: 582-587, 1973.
- Chang, C. P., New, A. E., Chiang, H. S., Irving, G. S., Taylor, J. F., and Chen, W. F.: A Surveillance for Japanese Encephalitis (JE) in Pigs in Southern Taiwan. *Chinese J. Microbiol.* 7: 6-12, 1974.
- Peng, M. T., Lai, Y. L., Yang, C. S., Chiang, H. S., New, A. E., and Chang, C. P.: Reproductive Parameters of the Taiwan Monkey (Macaca cyclopis). *Primates* 14: 201-213, 1973.
- Brown, R. J., Cole, W. C., Chang, C. P., and Hsu, S. H.: Renal Adenocarcinoma in an Owl Monkey (Aotus trivirgatus). *J. Med. Primatol.* 4: 62-64, 1975.



HER SHYANG CHIANG, D. V. M.
Veterinary Medicine Department

PLACE AND DATE OF BIRTH:
Nantou, Taiwan - 15 March 1936

EDUCATIONAL BACKGROUND:
National Taiwan University (B.S.) 1959
Ministry of Examination and Selection, R.O.C. (D.V.M.) 1962

PROFESSIONAL POSITIONS:

1959-1961 Military Service, Second Lieutenant, ROTC.
1961-present Chief Veterinarian, Veterinary Medicine Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1970-1973 Associate Professor, Department of Veterinary Medicine, National Taiwan University.
1970-1972 Consultant, Taiwan Anti-Serum and Vaccine Research Laboratory, Taiwan Provincial Gov't.
1972-1974 Consultant, Biomedical Research Laboratory, The Veterans General Hospital, Taiwan.

PROFESSIONAL SOCIETIES:

American Veterinary Medical Association
American Association for Laboratory Animal Science
International Committee on Laboratory Animals
Formosan Medical Association
Taiwan Veterinary Medical Association
Chinese Society of Microbiology

FIELDS OF INTEREST:

Laboratory Animal Medicine, especially breeding management and primatology, surgical research and nutritional experimental research

PUBLICATIONS:

Chiang, H. S., Lai, M. T., and Del Favero, J. E.: Artificial Insemination in Rabbits. J. Taiwan Assn. Anim. Husb. & Vet. Med. 13: 17-23, 1968.
Del Favero, J. E. and Chiang, H. S.: Standards of laboratory animal care on Taiwan. J. Formosa Med. Assn. 66: 127-134, March 1967.
Chang, C. P., Del Favero, J. E., and Chiang, H. S.: Survey of Bovine Anaplasmosis in Taiwan. J. Taiwan Assn. Husb. & Vet. Med. 13: 24-27, 1968.

Her Shyang Chiang

Pryor, W. H., Jr., Chiang, H. S., Raulston, G. L., and Melendes, L. V.: Incidence of neutralization antibody to Herpes B virus in the Taiwan monkey (Macaca cyclopis). *Primates* 11: 297-301, 1970.

Chiang, H. S. and New, A. E.: Laboratory animal care in Taiwan. Proceedings of the ICLA Asian Pacific Meeting of Laboratory Animals September 20-25, 1971, Tokyo and Inuyama. *Exp. Animals* 22: Suppl, 1973.

Taylor, J. F., New, A. E., Chang, C. P., and Chiang, H. S.: Baseline blood determinations of the Taiwan Macaque (Macaca cyclopis). *Lab. Anim. Sci.* 23: 582-587, 1973.

Chiang, H. S., Banknieder, A. R., Hsu, S. C., Cole, W. C., and Chang, C. P.: A technique for hand-rearing suckling rabbit (Oryctolagus cuniculus) in a laboratory environment. (In preparation).



CHAU MEI HO, Ph.D.
Research Investigator
Microbiology Department

PLACE AND DATE OF BIRTH:
Lan-Chow City, Kan-Su, China
2 November 1946

EDUCATIONAL BACKGROUND:	
National Taiwan University	
(B.S.)	1968
National Taiwan University	
(M.S.)	1970
National Taiwan University	
(Ph.D.)	1974

PROFESSIONAL POSITIONS:

1968-1970	Graduate Research Assistant, Insect Pathology Lab., National Taiwan University, Taipei, Taiwan.
1970-1974	Graduate Research Assistant, Institute of Zoology, Academia Sinica, Taipei, Taiwan.
1974	Research Associate, Insect Pathology Lab., National Taiwan University, Taipei, Taiwan.
1974-1975	Post-Doctoral Research Fellow, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1975-present	Research Investigator, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

The Plant Protection Society of China
Chinese Society of Microbiology
Taipei International Medical Society

FIELDS OF INTEREST:

Cytology, Cytogenetics, Molecular Biology and Rickettsiology

PUBLICATIONS:

Jan, K. Y., Hu, C. C., and Ho, C. M.: Improved Technique for the Cultivation of House Fly Embryonic Cells, Bull. Inst. Zool., Academia Sinica 11:33-36, 1972.

Yen, F. Y., Jan, K. Y., and Ho, C. M.: Paedogenesis and Chromosome Elimination of Cecid Flies. Proceedings of the Fourth Symposium on Mushroom Research and Improvement of Production. pp. 321-326, Jan. 1973.

Chau Mei Ho

Ho, C. M.: Paedogenesis and Chromosome Elimination of Cecidomyids. J. Horticulture Soc. of China 19: 1-3, Jan. 1973.

Jan, K. Y., Ho, C. M., and Koo, S. C.: Cell Differentiation Associated with the Mechanism of Gene Regulation. Proceedings of Symposium on the Growth and Differentiation of Cells. pp. 17-26, Mar. 1973.

Ho, C. M.: Male Sterilization by Tapa on House Fly. Abstracts Paper Presented at Annual Meeting of the Plant Protection Society of China, Tainan, Taiwan. p. 1, Dec. 1973.

Ho, C. M.: Male Sterilization by TEPA on House Fly. - Doctorial Thesis. Dec. 1973.

Ho, C. M.: Insect Chemosterilization and Utilization on the Pest Control. Presented at the Symposium on Pest Control in Plant Protection, Academia Sinica, Taipei, Taiwan, ROC, 6 December 1974.



SZE HSING HSU, M.D., M.P.H.
Head, Arthropod Tissue Culture
Division

PLACE AND DATE OF BIRTH:
Chekiang, China - 25 March 1917

EDUCATIONAL BACKGROUND:
Medical College, West China
Union University, Szechuan,
China (M. D.) 1944
University of Pittsburgh, Pittsburgh,
Pa, U.S.A. (M.P.H.) 1960

PROFESSIONAL POSITIONS:

1944-1953 Medical Officer, Army of the Republic of China.
1953-1957 Senior Instructor in Preventive Medicine, National Defense Medical
Center, Army of the Republic of China.
1957-1959 Chief, Preventive Medicine Division, Surgeon General's Office,
Army of the Republic of China.
1961-1963 Research Fellow, Department of Virology, U. S. Naval Medical
Research Unit No. 2, Taipei, Taiwan.
1963-1966 Deputy Surgeon General, Army of the Republic of China.
1966-present Head, Arthropod Tissue Culture Division, U. S. Naval Medical
Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Chinese Medical Association
Formosan Medical Association
American Public Health Association
Taipei International Medical Society

PUBLICATIONS:

Hsu, S. H.: Recent advances in live-virus vaccine against poliomyelitis.
Chinese Med. J. (ROC), 8: 37-57, 1961.

Hsu, S. H.: Progress on Improvement of Nutrition in the Armed Forces,
Republic of China. Presented before the XVIII International Congress of
Military Medicine and Pharmacy, 1-7 November 1965, Bangkok, Thailand.
Published in the Supplement to the XVIII International Congress of Medicine
and Pharmacy.

Sze Hsing Hsu

- Green, I. J., Rasmussen, A. F., Hsu, S. H., Hsieh, W. C., and Hung, S. C.: Antigenic Characteristics of Asia Influenza Viruses Isolated on Taiwan in 1961. *J. Formosan Med. Assoc.* 61: 105-109, 1962.
- Green, I. J., Hsu, S. H., and Yu, H. M.: The Serial Propagation of Sagiya Virus in Several Primary and Continuous Cell Cultures. *J. Formosan Med. Assoc.* 62: 41-46, 1963.
- Cooper, W. C., Lien, J. C., Hsu, S. H., and Chen, W. F.: Scrub Typhus in the Pescadores Islands: An Epidemiologic and Clinical Study. *Am. J. Trop. Med. Hyg.* 13: 833-838, 1964.
- Hsu, S. H. and Chang, T. Y.: Scrub Typhus Control in the Pescadores Islands. Presented before the "Symposium on the Recent Studies on Arthropod-borne Diseases of Man and Animals on Taiwan", 3-5 March 1966, NAMRU-2, Taipei, Taiwan.
- Hsu, S. H., Liu, H. H., and Suitor, E. C., Jr.: Adaptation of Grace's Continuous Line of Mosquito (Aedes aegypti L.) Cells to Hemolymph-free Medium. *J. Formosan Med. Assoc.* 66: 645, 1967.
- Hsu, S. H., Cross, J. H., and Lai, P. Y.: In vitro Cultivation of Trypanosoma lewisi in Arthropod Tissue Culture. *J. Formosan Med. Assoc.* 67: 528-529, 1968.
- Hsu, S. H., Liu, H. H., and Suitor, E. C., Jr.: Further Description of a Subline of Grace's Mosquito (Aedes aegypti L.) Cells Adapted to Hemolymph-free Medium. *Mosquito News* 29: 439, 1969.
- Hsu, S. H., Hwang, M. H., Wang, J., and Cross, J. H.: Susceptibility of Culex quinquefasciatus Say cell line to infection with arboviruses. *J. Formosan Med. Assoc.* 68: 643-644, 1969.
- Hsu, S. H., Mao, W. H., and Cross, J. H.: Establishment of a Line of Cells Derived from Ovarian Tissue of Culex quinquefasciatus Say. *J. Med. Ent.* 7: 703-707, 1970.
- Hsu, S. H.: Preliminary observations on growth of arboviruses in a newly established line of mosquito cells (Culex quinquefasciatus Say). Presented at the "Symposium on Arthropod Cell Cultures and Their Application to the Study of Viruses" at National Medical Research Institute, Bethesda, Maryland, in March 1970. *Current Topics in Microbiology and Immunology* 55: 140-148, 1971.
- Hsu, S. H., Li, S. Y., and Cross, J. H.: A cell line derived from ovarian tissue of Culex tritaeniorhynchus summorosus Dyar. *J. Med. Ent.* 9: 86-91, 1972.
- Hsu, S. H., Wang, B. T., Huang, M. H., Wong, W. J., and Cross, J. H.: Growth of Japanese Encephalitis Virus in Culex tritaeniorhynchus Cell Culture. *Am. J. Trop. Med. Hyg.* 24: 881-888, 1975.
- Hsu, S. H., Wong, W. J., and Cross, J. H.: Japanese Encephalitis Virus Plaque Formation in Culex tritaeniorhynchus Cell Monolayers. *Southeast Asian J. Trop. Med. Pub. Hlth.* 6: 1-2, 1975.
- Brown, R. J., Cole, W. C., Chang, C. P., and Hsu, S. H.: Renal Adenocarcinoma in an Owl Monkey. *J. Med. Primatol.* 4: 62-64, 1975.

Sze Hsing Hsu

- Hsu, S. H. and Chang, T. Y.: Scrub Typhus Control in the Pescadores Islands. Presented before the "Symposium on the Recent Studies on Arthropod-borne Diseases of Man and Animals on Taiwan", 3-5 March 1966, NAMRU-2, Taipei, Taiwan.
- Hsu, S. H., Liu, H. H., and Suitor, E. C., Jr.: Adaptation of Grace's Continuous Line of Mosquito (*Aedes aegypti* L.) Cells to Hemolymph-free Medium. J. Formosan Med. Assoc. 66:645, 1967.
- Hsu, S. H.: Development and Replication of Some Group A and B Arboviruses in Newly Established Mosquito Cell Lines. Presented at the 3rd International Congress for Virology. Madrid, Spain, 10-17 September 1975.

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the sample size, the data collection methods, and the statistical analysis techniques.

3. The third part of the report is a discussion of the results of the study. It presents the findings of the research and discusses their implications for the field of study.

4. The fourth part of the report is a conclusion and a list of references.



JAMES OO-KEK KHAW, D. T. M., D. P. H.
Guest Scientist
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Penang, Straits Settlements, Malaysia
27 December 1891

EDUCATIONAL BACKGROUND:

Edinburgh University (M. B., Ch. B.)	1913
Liverpool University (D. T. M.)	1913
Cambridge University (D. P. H.)	1914
Tropical Institute, Hamburg University (D. T. H.)	1922
Hospitals, Royal Society of Medicine, London	1920
Robert Koch Institute, Berlin	1923
Pasteur Institute, Paris	1932
Neuchâtel (Switzerland)	1932

PROFESSIONAL POSITIONS:

1914-1919	WWI Commissioned Captain, IMS (T. C.) Services and Ribbous British Exped. Force; England (1914-15). Mesopotamia (1916-18) India and Afghanistan (1918-19) as infect. diseases M. O. in 22 IGH, Basra; and Indian Regt. M. O. 1/2nd Gurkha Rifles and 26th Punjabis; Mentioned in Despatches; 1914 WWI medal with Oak leaf. 1914 services in France, Mesopotamia, India, Afghanistan.
1916	Special Officer I/C Cholera & Amebiasis, 22 I. G. Hosp. Basra, Messport.
1924	Demobed in London.
1926-1928	Dean of Prospective Medical Faculty, Amoy University, Fukien Special Cholera Prevention Officer, Amoy University, Fukien.
1928-1937	Associate Professor of Parasitology and Director of Parasitology Laboratory, Peking Union Medical College (Rockefeller's), China.
1937-1939	Associate Superintendent of above college hospital.
1939-1941	Associate Professor of Public Health of above college.
1939-1941	Superintendent of Health Demonstration Center of above college.
1941-1945	WWII, Com. Major, ABRO(Burma) LAMC (India); Colonel, Chinese AMC, Services and Ribbous: for campaigns in Burma, India. China: C. O. Chinese G. Hospital, in Burma; Director Army Lab. for Helminths & Protozoa at Poona, Calcuta, Specialist in Amebiasis; C. O. Special Schistosomiasis Lab. Unit for African Exp. Forces in Assam, Bengal and Madras (India). Letter of Appreciation and Recommendation.
1946	Demobed July New Delhi, India.
1947-1949	Director, Medical Laboratory, NDMC, Taipei, Taiwan.
1947-1949	Chief, Department of Med. Biomorphics, NDMC, Taipei, Taiwan.
1947-1949	Professor of Parasitology, NDMC, Taipei, Taiwan.
1952	Director, Blood Bank, Red Cross Society of China.

James Oo-Kek Khaw

- 1955 Bank of Taiwan, Member of Foreign Exchange Screening Committee.
1956 Advisor, Provincial Malaria Institute, Taiwan.
1970 Ministry of Interior: Foreign drugs screening committee.
1969-present Guest Scientist, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1969-present Consultant to C.O., NDMC, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Fellow, Royal Society of Tropical Medicine and Hygiene, London
Member, American Society of Parasitology
Chinese Medical Association
Formosan Medical Association for Advancement of Science
Chinese Red Cross Exec. Committee
Chinese Society of Environment Sanitation
Chinese Society of Microbiology
Chinese Society of Pathology
Chinese Society of Physiology

PUBLICATIONS:

Historical Notes on Fasciolopsis buski (Lankester) 1857.

(with Faust, E. C.): Excystment phenomena in Clonorchis sinensis. Proc. Soc. Exp. Biol. Med. 23: 245-248, 1925.

(with Faust, E. C.): Studies on Clonorchis sinensis (Cobbold) etc. Amer. J. Hyg. Monograph Series No. 8, 1927.

Untersuchungen über Hautreaktionen bei Impfung mit Ascaristrockensubstanz. Arch. F. Schiffs- u Tropen Hyg., 33: 46, 1929.

(with Keefer, C. S.): The anaemia of kala-azar. Nat. Med. J. China 15: 731, 1929.

Remarks on Species of Paragonimus, with Special Reference to Questions of their Identity and Distribution Nat. Med. J. China 16: 93, 1930.

(with Hu, C.K. and Frazier, C.N.): Subcutaneous Cysticercosis Cellulosae in Man. Arch. Derm. Syph. 21: 777, 1930.

Prosthogonimus, C. M. J. 44: 922, 1930.

Transmission of Kala-azar to Hamster (Cricetulus griseus) by Oral Route. Proc. Soc. Exp. Biol. Med. 28: 231, 1930.

Transmission of Kala-azar to Hamster (Cricetulus griseus) by feeding them with infected carcasses. Nat. Med. J. China 17: 599, 1931.

Survey of Peiping Latrines for Intestinal Parasites. Nat. Med. J. China 17:622, 1931.

(with Hoeppli, R.): Ekto-und Endoparasiten Chinesischer Bettler in Peiping. Arch. f. Schiffs- u Tropen Hyg. 35: 443, 1931.

James Oo-Kek Khaw

- Some Observations on the Prevalence of Malaria in Nanking and Its Vicinity.
Chinese M. J. 48: 109, 1934.
- Concentrated Fouadin in the Treatment of Schistosomiasis Japonicum in Rabbit.
Proc. Soc. Exp. Biol. Med. 32: 520, 1934.
- Treatment of Schistosomiasis Japonicum in Rabbits with Concentrated Fouadin.
Trop. Med. 1: 535, 1934.
- In vitro experiments on viability and excystment of paragonimus cysts. Proc.
Soc. Exp. Biol. Med. 32: 1003, 1935.
- Treatment of dirofilariasis immitis with concentrated fouadin. Proc. Soc. Exp.
Biol. Med. 32: 1394, 1935,
- Studies of Certain Problem of Clonorchis sinensis on Cysts and Intermediate
Hosts.
- (with Hsu, H. F.): Studies on Certain Problem of Clonorchis sinensis. III.
On the Morphology of the Metacercaria. Festschrift. Bernhard Nocht
Hamburg. 216-220, 1937.
- Experimental Infection of Guinea-Pig with Clonorchis sinensis Cysts in Fishes.
Peiking Soc. Natur. Hist. Bull IV. 19-25, 1936.
- (with Cheu, S. H.): The treatment of dog heart-worm (*Dirofilaria immitis* 1856)
with some organic antimony compounds. C.M.J. Supple. pp. 402-417, 1936.
- Myospalax fontaneri Milne-Edwards and Citellus dauricus mongolicus Milne-
Edwards' 2 new laboratory animals for experimental kala-azar. Chinese
M. J. (Supple. III) 593, 1938.
- Investigation on Schistosomiasis. Chinese M. J. 65: 129, 1947.
- Control of kala-azar in China. Chinese M. J. 67: 24, 1949.
- Filariasis in Free China, Pt. I. Incidence in Taiwan, Penghu (Pescadores) &
Kinmen (Quenmoy). Chinese M. J. 1: 77, 1954.
- Filariasis in Free China. Part 2. Incidence in Taiwan Chinese. C.M.J. 2:
151, 1955.
- Filariasis in Free China. Part 3. Incidence in Penghu Chinese. C.M.J. 4:
35, 1957.
- Filariasis in Free China. Part 4. Incidence in Kinmen Chinese. C.M.J. 4: 81,
1957.
- Filariasis in Free China. Part 5. Incidence in Native Chinese of Matsu
Archipelago. C.M.J. 4: 137, 1957.
- Filariasis in Free China. Part 6. Indicence among Tachen Refugees. C.M.J.
4: 188, 1957.

James Oo-Kek Khaw

Illustrated Human Parasitology 1956.

Filariasis in Free China. Part 7. Incidence among the Military. C.M.J. 5: 29-44, 1958.

(with Fan P. C. and Liu, J. C.): Filariasis in Free China. Part 8. Treatment of Filariasis with Hetrazan (Diethylcarbamazine). Read at the 4th Annual Meeting of the Chinese Medical Association, pp. 17-18, 1958.

(with Fan, P. C. and Liu, J. C.): Filariasis in Free China. Part 9. Showing Percentage of Filariasis Carriers with Clinical Signs. Ibid. pp. 18, 1958.

(with Fan, P. C. and Liu, J. C.): Studies on oxyuriasis. III. Incidence of oxyuriasis and efficacy of its treatment with antihelminthics in orphans in northern Taiwan, China. Ibid. 3: 182-191, 1956.

(with Fan, P. C. and Liu, J. C.): Studies on oxyuriasis. IV. Epidemiology of oxyuriasis in Free China. Ibid. 7: 111-128, 1960.

(with Fan, P. C. and Liu, J. C.): Studies on Oxyuriasis. V. Increase in incidence of oxyuriasis found by consecutive examinations. Read at the 4th Annual Meeting of the Chinese Medical Association. pp. 12-13, 1958.

(with Fan, P. C. and Liu, J. C.): Studies on Oxyuriasis. VI. Treatment of Oxyuriasis with Piperazine citrate and other drugs. Ibid. pp. 13-14, 1958.

(with Fan, P. C. and Liu, J. C.): Survey and treatment of intestinal Helminths in Rural Primary School children in Northern Taiwan. Free China. C.M.J. Free China Edit. 3: 60-69, 1956 (In Chinese).

(with Fan, P. C. and Liu, J. C.): Survey of Intestinal Helminths and Treatment of Ascariasis with Piperazine Citrate among School Children and Students in Northern Taiwan, China. Selected Papers, NDMC, pp. 12-22, 1956.

(with Fan, P. C. and Liu, J. C.): Treatment of Intestinal Helminths in Taiwan, Free China. Read at the 4th Annual Meeting of the Chinese Medical Association p. 16, 1958.

(with Fan, P. C. and Liu, J. C.): Incidence of Intestinal Helminths in Chinese in Free China. Ibid. p. 16, 1958.

(with Fan, P. C., Ma, J. T. and Liu, J. C.): *Trichomonas vaginalis* in northern Taiwan. Selected Papers, NDMC, pp. 54-59, 1958.

(with Fan, P. C., Ma, J. T. and Liu, J. C.): Incidence of *Trichomonas vaginalis* in Chinese women. C. M. J. Free China Edition 5: 169-181, 1958.

(with Fan, P. C. and Liu, J. C.): Studies on Paragonimiasis. I. Prevalence of Paragonimus Infection among School Children in Shengkung Hsiang, Taipei Prefecture, Taiwan. II. Incidence of Paragonimus Metacercariae Infection in *Eriocheir Japonicus* in Shengkung Hsiang Taipei Prefecture. III. Experimental Infection with Metacercariae of "Drunken Crabs" (*Eriocheir Japonicus*). Read at the 5th Annual Meeting of Chinese Medical Association. pp. 11, 1960.

James Oo-Kek Khaw

- Problems in Blood Transfusion Service in Taiwan. Proc. 8th Congr. Int. Soc. Blood Transf., Tokyo 1960, pp. 523-525.
- (with Liu, J. C.): Hematological Findings in Professional Blood Donors-A Preliminary Report. Chinese J. Physiol. p. 51-53, 1961.
- (with Liu, J. C.): The Ecology of *Semisulcospira libertina*. The Snail Intermediate Host of *Paragonimus westermani* (Kerbert, 1878) Braun, 1899, C.M.J. Republic of China 8: 295-301, 1961.
- (with Grayston, J. T., Woolridge, R. L. et al.): Trachoma Vaccine Studies in Volunteer Students of NDMC. 1. Complement fixation Antibody Response to Three Vaccines. C.M.J. 8: 307-311, 1961.
- Preliminary Report on Human *Dicrocoelium* in Orchid Island 1961.
- (with Tai, F. H.): Studies on Oral Immunization with the Chat Strain of Type 1 Living Attenuated Koprowski Poliovirus Vaccine in Taiwan. C.M.J. 9: 273-282, 1962.
- Present Status of Research Activities on Tropical Parasites on Taiwan Islands Group. Read at the UNESCO Regional Symposium on Scientific Knowledge of Tropical Parasites, Singapore, Nov. 5-9, 1962.
- Paragonimiasis on Taiwan Island complex. Read at UNESCO Regional Symposium on Scientific Knowledge of Tropical Parasites, Singapore, Nov. 5-9, 1962.
- (with Fan, P. C. and Tu, Y. C.): Helminth Infection of the appendix analysis of Appendectomized Specimens. C.M.J. 10: 25-38, 1963.
- (with Fan, P. C.): Comparative studies on larval migration of *Paragonimus westermani* in various experimental animals. Part I. Migration of larval *P. westermani* in cats. Ibid. 10: 207, 1963.
- (with Fan, P. C.): Comparative studies on larval migration of *Paragonimus westermani* in various experimental animals. Part II. Migration of larval *P. westermani* in rats (Long Evans) Ibid. 10: 284, 1963.
- (with Liu, J. C.): Studies on *Paragonimus westermani*, II. Experimental infection of the snail intermediate host *Semisulcospira libertina* under natural conditions. C. M. J. 10: 166, 1963.
- (with Liu, J. C.): Studies on *Paragonimus westermani*, III. The occurrence of Cercaria of *Paragonimus westermani* in relation to the size of snail intermediate host *Semisulcospira libertina* under natural conditions. C. M. J. 10: 297, 1963.
- (with Huang, S. W.): The efficacy and side reactions of Atabrine and Yomesan in treatment of taeniasis. Selected paper, NDMC, p. 34-39, 1964.
- (with Fan, P. C.): Relationship of food habits to human infection with *Paragonimus westermani*. I. Experimental infection with metacercariae of *P. westermani* of "Drunken crabs". *Eriocheir japonicus* in cats. Ibid. 11: 55, 1964.

James Oo-Kek Khaw

- Can Rodents Play a Role in Infecting Domestic Carnivorous Animals, Cats and Dogs, with Paragonimus westermani. Selected Papers, NDMC, p. 30-33, 1964.
- Studies on Ecology of Oncomelania Formosana, Pilsbry and Hirase, 1905 on Taiwan, Abstract of Experiments. C.M.J. 11: 353-369, 1964.
- (with Huang, S. W.): On the incidence and distribution of clonorchis metacercariae in fish intermediate hosts in Taiwan. Bull. Inst. Zool, Academia Sinica 3: 75-81, 1964.
- (with Fan, P. C.): Relationship of food habits to human infection with Paragonimus westermani. II. Experimental infection with metacercariae of P. westermani of "Salted crab" Eriocheir japonicus in cats. C.M.J. 11: 262, 1964.
- (with Fan, P. C.): A technique for rapid relaxation of the blood fluke, Schistosoma japonicum, before fixation. Ibid. 11: 65, 1964.
- Experimental transfer of Paragonimus infection from small to large carnivorous hosts by feeding. Chinese M. J. 12: 55-67, 1965.
- (with Huang, S. W.): Experimental treatment of clonorchiasis in cats and dogs with Disphenol. C.M.J. 12: 68-79, 1965.
- Paragonimus westermani Infection in Crustacean Host, Eriocheir Japonicus, in Shen-Keng District, Taipei County, Northern Taiwan. C.M.J. 12: 381-396, 1965.
- (with Huang, S. W. and Hsu, J.): A parasitological investigation in Hapung aborigine village, Taiwan. C.M.J. 12: 44-55, 1965.
- Further Studies on Distribution and Density of Oncomelania formosana, Intermediate Host of Schistosoma japonicum, in Ilan Country, Northeastern Taiwan. C.M.J. 13: 244-268, 1966.
- (with Huang, S. W. and Lin, C. Y.): Studies on Taenia sp. Prevalent among aborigines in Wulai district, Taiwan; I. On the parasitological fauna of the aborigines in Wulai district. Bull. Inst. Zool., Academia Sinica 5: 78-82, 1966.
- (with Fan, P. C.): Paragonimus westermani infection in Crustacean host, Eriocheir japonicus in Shen-Keng district, northern Taiwan, C.M.J. 13: 381-396, 1966.
- (with Fan, P. C.): Laboratory Diagnosis of Medical Parasitology, NDMC Monog. p. 262, 1966.
- (with Fan, P. C.): Schistosomiasis japonica on Taiwan. Abstract. C.M.J. 13: 128-130, 1966.
- (with Fan, P. C.): Effects of the common chemical fertilizers on Oncomelania formosana, intermediate host of Schistosoma japonicum in laboratory. A preliminary report. Ibid. 14: 385-392, 1967.

James Oo-Kek Khaw

- (with Fan, P. C.): A preliminary study on the field trials of a fertilizer, calcium cyanamide (CaNCN) on Oncomelania formosana, the intermediate host of Schistosoma japonicum in Ilan County, Northeastern Taiwan. Ibid. 15: 34, 1968.
- (with Fan, P. C. and Hsu, J.): Filariasis in the Asia, Africa and Western Pacific Region based partly on data reported at WHO Seminar in Manila, Nov. 22 - Dec. 1, 1965. Ibid. p. 54, 1968.
- (with Liu, J. C. and Fan, P. C.): Paragonimiasis in school children in Shen-Keng Hsiang, Taipei Hsien, Northern Taiwan. Ibid. 15: 44-53, 1968.
- (with Fan, P. C.): Illustrated Human Parasitology. 2nd edition. Monog. p. 476, NDMC. 1969.
- (with Fan, P. C.): Schistosomiasis japonica on Taiwan. A review. Proceedings of 4th Southeast Asian Seminar on Parasitology and Tropical Medicine, schistosomiasis and other snail-transmitted Helminthiasis in Manila, p. 24-27, 1969.
- (with Fan, P. C.): Studies on morphological characteristics in four geographic strains of S. Japonicum. The 3rd Annual Meeting of the Chinese Society of Microbiology p. 148, 1969.
- (with Fan, P. C. and Liu, J. C.): Prevalence and treatment of the common intestinal helminths in Free China. The 7th SEAMEO Tropical Medicine Seminar on Infectious Diseases of the Gastro-Intestinal system in Southeast Asia and the Far East. Sept. 28 - Oct. 2, 1970, Taipei, Taiwan, p. 291-292, 1970.
- Clonorchiasis in Sun Moon Lake Area. Chinese J. Microbiol. 4: 50-60, 1971.
- (with Fan, P. C.): Epidemiology and Biological aspects of Paragonimiasis in northern Taiwan. The 3rd Seminar on Tropical Medicine. Seoul, Korea. May 23-25, 1971.
- (with Fan, P. C.): Treatment of filariasis with diethylcarbamazine. 11st Regional Meeting of Formosan Med. Ass. in Koahsiung May 6-7, 1972.
- (with Fan, P. C., Wang, Y. C., and Liu, J. C.): Studies on filariasis in Kinmen (Quemoy) Islands. Chinese Micro. J. 5: 139, 1972.
- (with Fan, P. C. and Wang, Y. C.): Medical Parasitology. 3rd edit. Kwang-Shang Inc. 350 pages with 170 figures. 1973 (In Chinese).
- A Team Approach to a Disease Survey on an Aboriginal Island (Orchid Island, Taiwan) Introduction to the Yami and Description of the Habitat. Chinese J. Microbiol. 6: 157-163, 1973.
- A Team Approach to a Disease Survey on an Aboriginal Island (Orchid Island, Taiwan) I. Protozoa and helminth parasites of the Yami Aborigines. Chinese J. Microbiol. 6: 164-172, 1973.
- (with Fan, P. C., Wang, W. C., and Liu, J. C.): Mass treatment of bancroftian filariasis with diethylcarbamazine on Kinmen (Quemoy) Islands, R.O.C. proceeding of 3rd International Congress of Parasitology 3: 1374, 1974. Munchen, 25-31, August, 1974.



MEI LING LEU, M.D.
Epidemiology and
Clinical Investigation Department

PLACE AND DATE OF BIRTH:
Tein-Ching City - 28 September 1936

EDUCATIONAL BACKGROUND:
National Taiwan University,
Medical College (M.D.) 1961

PROFESSIONAL POSITIONS:

1961-1962 Internship in National Taiwan University Hospital (N. T. U. H.)
1962-1966 Residency in internal medicine, N. T. U. H.
1966-1967 Chief Resident in Internal Medicine, N. T. U. H.
1968-present Epidemiology and Clinical Investigation Department, U. S. Naval
Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Formosan Medical Society.

PUBLICATIONS:

- Leu, M. L., Strickland, G. T., Wang, C. C., and Chen, T. S. N.: Skin pigmentation in Wilson's disease. J.A.M.A. 211: 1542-1543, 1970.
- Leu, M. L., Strickland, G. T., Beckner, W. M., Chen, T. S. N., Wang, C. C., and Yeh, S. J.: Muscle copper, zinc, and manganese levels in Wilson's disease: Studies with the use of neutro activation analysis. J. Lab. Clin. Med. 76: 432-438, 1970.
- Leu, M. L., Strickland, G. T., and Gutman, R. A.: Renal function in Wilson's disease: Response to penicillamine therapy. Amer. J. Med. Sci. 260: 381-398, 1970.
- Leu, M. L., Strickland, G. T., and Yeh, S. J.: Tissue copper, zinc, and manganese levels in Wilson's disease: Studies with the use of neutron activation analysis. J. Lab. Clin. Med. 77: 438-449, 1971.
- Leu, M. L. and Strickland, G. T.: Renal function in heterozygotes for Wilson's disease. Amer. J. Med. Sci. 263: 19-24, 1972.

Mei Ling Leu

Strickland, G. T., Beckner, W. M., Leu, M. L., and O'reilly, S.: Turnover studies of copper in hemozygotes and heterozygotes for Wilson's disease and controls: Isotope tracer studies with ^{67}Cu . Clin. Sci. 43: 605-615, 1972.

Strickland, G. T., Beckner, W. M., and Leu, M. L.: Absorption of copper in hemozygotes and heterozygotes for Wilson's disease and controls: Isotope tracer studies with ^{67}Cu and ^{64}Cu . Clin. Sci. 43: 617-625, 1972.

Strickland, G. T., Frommer, D., Leu, M. L., Pollard, R., Sherlock, S., and Cumings, J. N.: Wilson's disease in the United Kingdom and Taiwan. Q. J. Med. 42: 619-638, 1973.

Strickland, G. T. and Leu, M. L.: Wilson's disease: Clinical and laboratory manifestations in 40 patients. Medicine, 54: 113-137, 1975.



JIH CHING LIEN, Ph.D.
Research Investigator
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Taipei, Taiwan - 17 December 1927

EDUCATIONAL BACKGROUND:

Taiwan Provincial Normal University (B.Ed.)	1954
Department of Entomology, London School of Hygiene & Tropical Medicine, England	1959
WHO Entomologist's Course, London	1959
Far East Research Unit, U.S. Public Health Service, Institute for Medical Research, Kuala Lumpur, Malaysia	1964
The Ohio State University	1968
Nagasaki University, Japan (Ph.D.)	1969

PROFESSIONAL POSITIONS:

1960-1964	Technical Expert, Taiwan Provincial Malaria Research Institute (TAMRI), Taiwan.
1964-1966	Technical Expert and Chief of First Section (Research), TAMRI, Taiwan.
1966-present	Visiting Research Investigator, Taiwan Provincial Institute of Infectious Diseases, Nankang, Taipei, Taiwan.
1966-present	Research Investigator, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
Aug-Oct 1969	World Health Organization Consultant (Scientist).
1973-1974	Visiting Professor, National Defense Medical Center; and National Taiwan Normal University, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Formosan Medical Association
Entomological Society of Washington
Chinese Society of Public Health
Chinese Society of Microbiology

FIELDS OF INTEREST:

Ecological and taxonomic research on the arthropods of medical importance.

PUBLICATIONS:

Lien, J. C.: Pictorial key to the female adults of Taiwan Anopheles. Taiwan Provincial Malaria Research Institute. Taiwan. 1958.

Lien, J. C.: Pictorial key to the fourth instar larvae of Taiwan Anopheles. Taiwan Provincial Malaria Research Institute, Taiwan, 1958.

Lien, J. C.: Laboratory culture of Aedes (Finlaya) togoi (Theobald), 1907 and measurements of its susceptibility to insecticides. Ent. exp. & appl. 3: 267-282, 1960.

Jih Ching Lien

- Lien, J. C.: On the Anopheles of Taiwan. Malaria Eradication Newsletter 3: 23-27, 1960 (In Chinese).
- Lien, J. C.: Identification of the species of Anopheles occurring in China and their distribution in China. Health Monthly Magazine 6: 25-32, 1962 (In Chinese).
- Lien, J. C.: Non-anopheline mosquitoes of Taiwan: Annotated catalog and bibliography. Pacific Insects 4: 615-649, 1962.
- Lien, J. C.: On the 19 common species of mosquitoes in Taiwan. Malaria Eradication in Taiwan 1: 10-11, 1962 (In Chinese).
- Lien, J. C. and Chen, P. S.: Pictorial key to the fleas of Taiwan. Taiwan Provincial Malaria Research Institute, Taiwan, 1963 (In Chinese).
- Lien, J. C.: Mosquitoes of Taiwan: Genus Toxorhynchites Theobald. J. Med. Ent. 2: 1-16, 1965.
- Lien, J. C.: On the Aedes aegypti and Aedes albopictus in Taiwan. NAMRU-2 Symposium on "Recent Studies on Arthropod-borne Diseases of Man and Animals on Taiwan", 3-5 March 1966.
- Lien, J. C. and Hsieh, P. Y.: On the Xenopsylla cheopis in Taiwan. NAMRU-2 Symposium on "Recent Studies on Arthropod-borne Diseases of Man and Animals on Taiwan", 3-5 March 1966.
- Lien, J. C., Lin, S. Y., and Lin, H. M.: Observations on the seasonal fluctuations of Leptotrombidium deliense in the Pescadores. NAMRU-2 Symposium, 3-5 March 1966.
- Lien, J. C.: Distribution of the Culex mosquitoes of vishnui group in Taiwan. NAMRU-2 Symposium, 3-5 March 1966.
- Lien, J. C. and Lin, H. M.: Field observation on the habits of Forcipomyia (Lasiohelea) taiwana. NAMRU-2 Symposium, 3-5 March 1966.
- Lien, J. C. and Lin, S. Y.: On the sand flies (Phlebotominae) and black flies (Simuliidae) in Taiwan. NAMRU-2 Symposium, 3-5 March 1966.
- Lien, J. C.: Successful laboratory colonizations of Anopheles sinensis and Aedes annandalei. NAMRU-2 Symposium, 3-5 March 1966.
- Lien, J. C. and Lin, H. M.: A field experiment on the efficacy of the insecticides BHC and DDT against the chigger vector of scrub typhus in the Pescadores. NAMRU-2 Symposium, 3-5 March 1966.
- Lien, J. C., Liu, S. Y., and Lin, H. M.: Field observation on the bionomics of Leptotrombidium deliense, the vector of scrub typhus in the Pescadores. Acta Medica et Biologica, 15(Suppl.): 27-31, 1967.
- Lien, J. C. and Cross, J. H.: Experimental Studies on malaria in Taiwan. Presented at the First Southeast Asian Regional Seminar on Tropical Medicine, the Third Conference on Parasitic Diseases and the Seminar on Malaria, Bangkok, 7-11 August 1967.

Jih Ching Lien

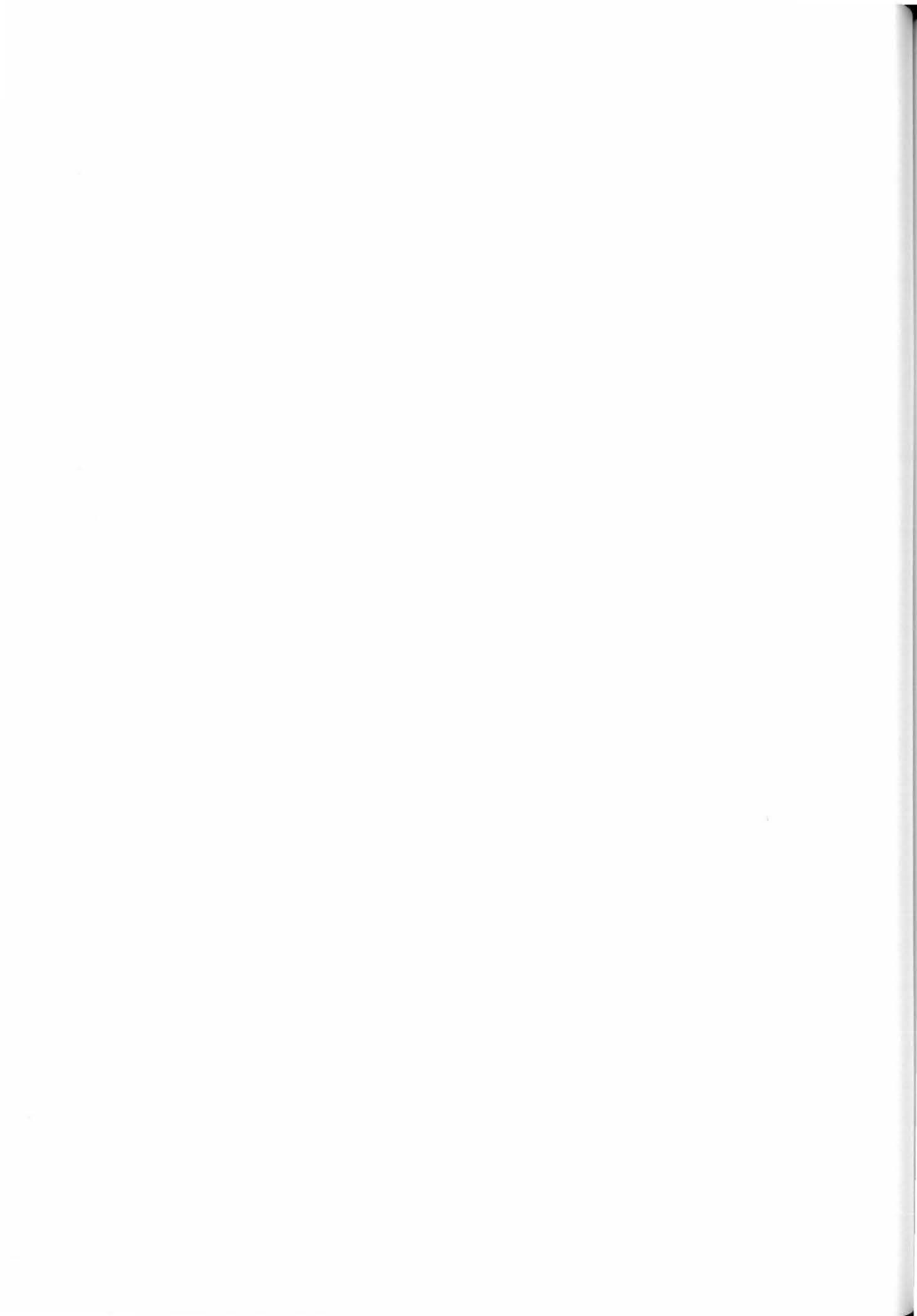
- Lien, J. C.: Mosquitoes in Taiwan. Jap. J. Trop. Med. 9: 1-3, 1968 (In Japanese).
- Lien, J. C.: New Species of Mosquitoes from Taiwan (Diptera: Culicidae).
Part I. Two New Species of Aedes (Finlaya). Trop. Med. 9: 177-185, 1967.
- Lien, J. C.: New Species of Mosquitoes from Taiwan (Diptera: Culicidae).
Part II. New Species of Tripteroides, Orthopodomyia, Culiseta and Uranotaenia. Trop. Med. 10: 1-20, 1968.
- Lien, J. C.: New Species of Mosquitoes from Taiwan (Diptera: Culicidae).
Part III. Five New Species of Aedes. Trop. Med. 10: 95-115, 1968.
- Lien, J. C.: New Species of Mosquitoes from Taiwan (Diptera: Culicidae).
Part IV. Mattinglyia catesi, n. gen., n. sp. and Four New Species of Genus Heizmannia Ludlow. Trop. Med. 10: 127-153, 1968.
- Lien, J. C.: New Species of Mosquitoes from Taiwan (Diptera: Culicidae).
Part V. Three New Subspecies of Aedes and Seven New Species of Culex. Trop. Med. 10: 217-262, 1968.
- Lien, J. C. and Cross, J. H.: Plasmodium (Vinckeia) watteni sp. n. from Formosan giant flying squirrel, Petaurista petaurista grandis. J. Parasitol. 54: 1171-1174, 1968.
- Lien, J. C.: Preliminary observations on the mosquitoes of Korea and recommendations developed for the WHO Japanese Encephalitis Vector Research Unit. WHO/VBC/69.175, 1969.
- Koidzumi, K. and Lien, J. C.: Formosan derris as an anopheline larvicide. Chinese Rev. Trop. Med. 1: 47-58, 1948.
- Tsai, C. and Lien, J. C.: A new species of Aedes (Finlaya) found in Taiwan. J. Formosan Med. Assoc. 49: 1-7, 1950.
- Chen, H. H. and Lien, J. C.: Mosquitoes of Genus Ficalbia in Taiwan (Formosa), China. J. Formosan Med. Assoc. 55: 1-17, 1956.
- Chen, H. H., Lien, J. C., and Tseng, P. T.: Comparative effect of house cleaning and antimalarial residueal DDT house spray for bedbugs, fleas and cockroaches in Taiwan. J. Formosan Med. Assoc. 55: 22-27, 1956.
- Liu, S. Y., Chen, H. H., and Lien, J. C.: A brief study of the bionomics of fly breeding in Keelung City, Taiwan. J. Formosan Med. Assoc. 56: 1-9, 1958.
- Nye, E. R. and Lien, J. C.: Laboratory transmission of Semliki Forest Virus by Aedes togoi Theo. Trans. Roy. Soc. Trop. Med. Hyg. 54: 263-264, 1960.
- Busvine, J. R. and Lien, J. C.: Methods for measuring insecticides susceptibility levels in bed-bugs, cone-nosed bugs, fleas and lice. Bull. WHO 24: 509-517, 1961.

Jih Ching Lien

- Copper, W. C., Lien, J. C., Hsu, S. H., and Chen, W. F.: Scrub typhus in the Pescadores Islands: An epidemiologic and clinical study. Amer. J. Trop. Med. Hyg. 13: 833-838, 1964.
- Chuang, C. H., Lien, J. C., and Lin, S. Y.: Further studies on simian malaria in Taiwan. WHO/Mal/66.567, 1966.
- McNeill, D., Jenkin, H. M., Armstrong, D., Chang, Y. S., Lien, J. C., and Meyer, K. F.: A serologic survey of rodent plague in Taiwan and offshore islands. Bull. WHO, 38: 793-798, 1968.
- Cross, J. H., Lien, J. C., and Hsu, M. Y.: Toxoplasma Isolated from the Formosan Giant Flying Squirrel. J. Formosan Med. Assoc. 68: 678-683, 1969.
- Cates, M. D. and Lien, J. C.: The Phlebotomus of Taiwan. J. Med. Ent. 7: 529-543, 1970.
- Lee, K. W. and Lien, J. C.: Pictorial keys to the mosquitoes of Korea. WHO/VBC/70.196, 1970.
- Uemoto, K., Ohnishi, O., and Lien, J. C.: Simulid fauna of Taiwan (Preliminary Report). Jap. J. Sanit. Sool. 22: 107, 1971.
- Lien, J. C., Cross, J. H., and Hsu, M. Y.: Experimental studies of Plasmodium inui of Taiwan Monkey, Macaca cyclopis. Abstract - J. Formosan Med. Assoc. 67: 158, 1968.
- Hsu-Kuo, M. Y., Lien, J. C., and Cross, J. H.: Studies on Trypanosoma cornorhini. Chinese J. Microbiol. 3: 148-149, 1970.
- Lien, J. C. and Fan, P. C.: A new record of ceratophyllid flea (Siphonaptera) from Taiwan. Chinese J. Microbiol. 4: 254-259, 1971.
- Cross, J. H., Lien, J. C., Huang, W. C., Lien, S. C., Chiu, S. F., Kuo, J., Chu, H. H., and Chang, Y. C.: Japanese encephalitis virus surveillance in Taiwan. II. Isolations from mosquitoes and bats in Taipei area 1969-1970. J. Formosan Med. Assoc. 70: 681-686, 1971.
- Van Peenen, P. F. D., Atmosoedjono, S., Lien, J. C., and Saroso, S.: Seasonal abundance of adult Aedes aegypti in Djakarta, Indonesia. Mosquito News 32: 176-179, 1972.
- Cross, J. H., Kuo, M. Y., and Lien, J. C.: Accidental human infection with Plasmodium cynomolgi bastianelli. Southeast Asian J. Trop. Med. Pub. Hlth. 4: 481-483, 1973.
- Partono, F., Cross, J. H., Borahima, Lien, J. C., and Sri Oemijati: Malaria and filariasis in a transmigration village eight and twenty-two months after establishment. Southeast Asian J. Trop. Med. Pub. Hlth. 4: 484-486, 1973.

Jih Ching Lien

- Gale, J. L., Irving, G. S., Wang, H. C., Lien, J. C., Chen, W. F., and Cross, J. H.: Scrub typhus in Eastern Taiwan, 1970. *Am. J. Trop. Med. Hyg.* 23: 679-684, 1974.
- Lien, J. C., Cheng, C. I., and Lien, S. C.: A team approach to a disease survey on an aboriginal island (Orchid Island, Taiwan). IV. Mosquitos and chiggers on Lanyu (Orchid Island), Taitung Hsien, Taiwan. *Chinese J. Microbiol.* 7: 36-41, 1974.
- Matsuo, K., Yoshida, Y., and Lien, J. C.: Scanning electron microscopy of mosquitoes. II. The egg surface structure of 13 species of Aedes from Taiwan. *J. Med. Entom.* 11: 179-188, 1974.
- Matsuo, K., Lien, J. C., and Yoshida, Y.: Scanning electron microscopy of mosquitoes. III. The egg surface structure of 5 species from Taiwan and 2 species from Indonesia. *J. Formosan Med. Assoc.* 73: 437-444, 1974.
- Matsuo, K., Lien, J. C., Kunou, I., and Ito, S.: Morphological studies of the mimeticus group of genus Culex (Diptera: Culicidae). I. Pale spots on wing and wing venation. *Jap. J. Sanit. Zool.* 25: 51-56, 1974.
- Chuang, C. H., Lien, J. C., and Lin, S. Y.: Studies on Simian malaria in Taiwan. WHO/Mal/505.65, 1965.
- Lien, J. C. and Chen, C. Y.: Species of flies breeding in latrines in the Taipei area. *Chinese J. Microbiol.* 7: 165-175, 1974.
- Lien, J. C.: On a phlebotomid fly found in Okinawa. *Jap. J. Sanit. Zool.* 25: 298, 1975.
- Lien, J. C., Kosman, L., Partono, F., Joesoef, A., Kosin, E., and Cross, J. H.: A brief survey of mosquitoes in North Sumatra, Indonesia. *J. Med. Entom.* 12: 233-239, 1975.
- Lien, J. C., Atmosoedjono, S., Usfinit, A. U., and Gundelfinger, B. F.: Observations on natural plasmodial infections in mosquitoes and a brief survey of mosquito fauna in Belu Regency, Indonesian Timor. *J. Med. Entom.* 12: 333-337, 1975.
- Gundelfinger, B. F., Wheeling, C. H., Lien, J. C., Atmosoedjono, S., and Simanjuntak, C. H.: Observations on malaria in Indonesian Timor. *Am. J. Trop. Med. Hyg.* 24: 393-396, 1975.
- Wheeling, C. H., Gundelfinger, B. F., Lien, J. C., Atmosoedjono, S., and Simanjuntak, C. H.: Filariasis in Indonesian Timor. *Am. J. Trop. Med. Hyg.* 24: 897-898, 1975.



E. RUSSELL ALEXANDER, M. D.
BuMed Consultant
Epidemiology and Clinical
Investigation Department

PLACE AND DATE OF BIRTH:
Chicago, Illinois - 15 June 1928

EDUCATIONAL BACKGROUND:
University of Chicago (Ph.D.) 1948
University of Chicago (S.B.) 1950
University of Chicago (M.D.) 1953



PROFESSIONAL POSITIONS:

1953-1954	Internship, Cincinnati General Hospital.
1954-1955	Residency Training (Pediatrics), University of Chicago, Chicago, Illinois.
1955-1957	Epidemic Intelligence Service, USPHS, CDC.
1957-1958	Residency Training (Pediatrics), University of Chicago, Chicago, Illinois.
1958-1959	Chief Resident (Pediatrics), University of Chicago, Chicago, Illinois.
1958-1959	Instructor in Pediatrics, University of Chicago, Chicago, Illinois.
1959-1960	Epidemic Intelligence Service, USPHS, CDC.
1961-1965	Assistant Professor, Department of Preventive Medicine and Department of Pediatrics, School of Medicine, University of Washington, Seattle, Wash.
1964-1966	Guest Investigator, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1965-1969	Associate Professor, Department of Preventive Medicine and Department of Pediatrics, School of Medicine, University of Washington, Seattle, Wash.
1966-present	BuMed Consultant, Epidemiology and Clinical Investigation Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1967-present	Research Affiliate, Regional Center for Primate Research, University of Washington, Seattle, Washington.
1969-present	Professor, Department of Pediatrics, School of Medicine, University of Washington, Seattle, Washington.
1969-1970	Professor and Head, Division of Epidemiology and International Health, Department of Preventive Medicine, School of Medicine, University of Washington, Seattle, Washington.
1969-1970	Visiting Professor, Institute of Public Health, College of Medicine, National Taiwan University, Taipei, Taiwan.
1970-present	Professor and Chairman, Department of Epidemiology and International Health, School of Public Health and Community Medicine, University of Washington, Seattle, Washington.

E. Russell Alexander

APPOINTMENTS:

- 1970-73 Member, Public Health Training, Preventive Medicine and Dentistry Review Committee, National Institutes of Health
- 1970-74 Member, Task Force on Infectious Diseases, Perinatal Research Branch, National Institute of Neurological Diseases and Stroke, National Institutes of Health
- 1970-72 Member, Executive Committee, Section of Epidemiology, American Public Health Association
- 1970-72 Member, Executive Committee, Associated Teachers of Preventive Medicine
- 1972-present Vice Chairman, Epidemiology Section and Member, Governing Council, American Public Health Association
- 1973-present Member, Committee on the Role of Academic Health Centers and International Health Programs, Fogarty International Center, National Institutes of Health
- 1973-present Chairman, Epidemiology Section, American Public Health Association
- 1973-present Member, Editorial Board, Journal of American Venereal Disease Association
- 1974-present Member, Armed Forces Epidemiologic Board

PROFESSIONAL SOCIETIES:

American Epidemiological Society
American Public Health Association (Fellow)
American Venereal Disease Association
Association of Teachers of Preventive Medicine
International Epidemiological Association
Seattle-King County Medical Society
Society for Epidemiologic Research
Society for Pediatric Research
Taipei International Medical Society

CERTIFICATION:

American Board of Pediatrics - March 1960

PUBLICATIONS:

- Loosli, C. G., Hull, R. B., Berlin, B. S., and Alexander, E. R.: The influence of ACTH on the course of experimental influenza type A virus infection. *J. Lab. Clin. Med.*, 37: 464-476, 1951.
- Grayston, J. T., Loosli, C. G., and Alexander, E. R.: The isolation of histoplasma capsulatum from soil in an unused silo. *Science*, 114: 323-324, 1951.
- Loosli, C. G., Grayston, J. T., Alexander, E. R., and Tanzi, F.: Epidemiological studies of pulmonary histoplasmosis in a farm family. *Amer. J. Hyg.*, 55: 392-401, 1952.
- Loosli, C. G., Grayston, J. T., Lester, W., Jr., Tanzi, F., Comb, L. F., and Alexander, E. R.: Some epidemiological and clinical aspects of pulmonary histoplasmosis in a farm family. *Trans. Ass. Amer. Physicians*, 65: 159-167, 1952.
- Tanzi, F. and Alexander, E. R.: Studies on histoplasma capsulatum isolated from an unused silo. *Proceedings of the Society of Illinois Bacteriologists*, p. 5, May 1952.

E. Russell Alexander

- Loosli, C. G., Hamre, D., Grayston, J. T., and Alexander, E. R.: Experimental air-borne mouse pneumonitis virus (MPV) infection in mice. III. The development of a strain of MPV resistant to sulfadiazine and related compounds. *Antibiotics Ann.* (Medical Encyclopedia, Inc., New York). pp. 490-503, 1954-55.
- Alexander, E. R.: Arthropod-borne encephalitides: Epidemiological reports 1955. *Proceedings of the 11th Annual Meeting of the International Northwestern Conference on Diseases in Nature Communicable to Man.* pp. 39-42, 1956.
- Razenhofer, E. R., Alexander, E. R., Beadle, L. D., Bernstein, A., and Pickard, R. C.: St. Louis encephalitis in Calvert City, Kentucky, 1955. An epidemiologic study. *Amer. J. Hyg.*, 65: 147-161, 1957.
- Axnick, N. W. and Alexander, E. R.: Tetanus in the United States: A review of the problem. *Amer. J. Public Health*, 47: 1493-1501, 1957.
- Alexander, E. R. and Murray, W. A., Jr.: Arthropod-borne encephalitis in 1956. *Public Health Rep.*, 73: 329-339, 1958.
- Feemster, R. F., Wheeler, R. E., Daniels, J. B., Rose, H. D., Schaeffer, M., Kissling, R. E., Hayes, R. O., Alexander, E. R., and Murray, W. A., Jr.: Field and laboratory studies on equine encephalitis. *New Eng. J. Med.*, 259: 107-113, 1958.
- Langmuir, A. D. and Alexander, E. R.: Present vaccination status of the U. S. population and effectiveness of Salk vaccine. *Bull. Acad. Med., New Jersey*, 6: 91-105, 1960.
- Alexander, E. R.: Epidemiology and surveillance of vector-borne diseases. Summary of the 3rd Biennial Conference on Vector Control and Related Problems (Communicable Disease Center, USPHS, Atlanta), 5-8, 1960.
- Alexander, E. R.: The extent of the poliomyelitis problem. *J.A.M.A.*, 175: 837-840, 1961.
- Alexander, E. R., et al.: Surveillance of poliomyelitis in the United States 1958-61. *Public Health Rep.*, 77: 1011-1020, 1962.
- Guinee, V. K., et al.: A collaborative study of measles vaccine in five United States communities. Preliminary report. *Amer. J. Public Health*, 53: 645-651, 1963.
- Grayston, J. T., Wang, S-P., Woolridge, R. L., and Alexander, E. R.: Prevention of trachoma with vaccine. *Arch. Environ. Health*, 8: 518-526, 1964.
- Bond, J. O., Ballard, W. C., Markush, R. E., and Alexander, E. R.: The 1959 outbreak of St. Louis encephalitis in Florida. *Tampa Bay Area Arbovirus Investigation, Monograph Series, No. 5.* Florida State Board of Health, 2-18, 1963.
- Ager, E. A., Felsenstein, W. C., Alexander, E. R., Wymer, M. E., Sabotta, E., and Ashby, V.: An epidemic of illness due to Coxsackie virus group B, type 2. *J.A.M.A.*, 187: 251-256, 1964.

E. Russell Alexander

- Brody, J. A., McAlister, R., Emanuel, I., and Alexander, E. R.: Measles vaccine field trials in Alaska. I. Killed vaccine followed by live attenuated vaccine and gamma globulin with live attenuated vaccine. J.A.M.A., 189: 339-342, 1964.
- Brody, J. A., Emanuel, I., McAlister, R., and Alexander, E. R.: Measles vaccine field trials in Alaska. II. Vaccination on St. Paul Island, Pribilofs, where measles had been absent for 21 years. J.A.M.A., 190: 91-94, 1964.
- Alexander, E. R., Bansmer, C. A., Harris, E. S., Giles, B., and Sparks, M.J.: Measles vaccination in infants: Use of killed-live combinations. Amer. J. Dis. Child., 108: 470-478, 1964.
- Grayston, J. T., Alexander, E. R., Kenny, G. E., Clarke, E. R., Fremont, J. C., and MacColl, W. A.: Mycoplasma pneumoniae infections. Clinical and epidemiologic studies. J.A.M.A., 191: 369-374, 1965.
- Alexander, E. R., Ting, N., Grayston, J. T., Lu, C., Li, Y-B., and Bruce, R. A.: Pilot study of ischemic heart disease on Taiwan. Arch. Environ. Health, 10: 689-693, 1965.
- Alexander, E. R.: The non-bacterial etiology of acute lower respiratory tract disease in children - a review. Acta Paediat. Sinica, 6: 181-189, 1965.
- Alexander, E. R., Foy, H. M., Kenny, G. E., Kronmal, R. A., McMahan, R., Clarke, E. R., MacColl, W. A., and Grayston, J. T.: Pneumonia due to Mycoplasma pneumoniae. Its incidence in the membership of a cooperative medical group. New Eng. J. Med., 275: 131-136, 1966.
- Brody, J. A., Alexander, E. R., and Hanson, M. L.: Measles vaccine field trials in Alaska. III. Two-year follow-up of inactivated vaccine followed by live, attenuated vaccine and of immune globulin with live, attenuated vaccine. J.A.M.A., 196: 757-760, 1966.
- Detels, R., Alexander, E. R., and Dhir, S. P.: Trachoma in Punjabi Indians in British Columbia: A prevalence study with comparisons to India. Amer. J. Epidemiol., 84: 81-91, 1966.
- Foy, H. M., Grayston, J. T., Kenny, G. E., Alexander, E. R., and McMahan, R.: Epidemiology of Mycoplasma pneumoniae infection in families. J.A.M.A., 197: 859-866, 1966.
- Guinee, V. F., Henderson, D. A., Casey, H. L., Wingo, S. T., Ruthig, D. W., Cockburn, T. A., Vinson, T. O., Calafiore, D. C., Winkelstein, W., Karzon, D. T., Rathbun, M. L., Alexander, E. R., and Peterson, D. R.: Cooperative measles vaccine field trial. I. Clinical efficacy. Pediatrics, 37: 649-665, 1966.
- Grayston, J. T. and Alexander, E. R.: "Acute Respiratory Infections", Clark, D. W. and MacMahon, B., Eds. in Preventive Medicine, Little, Brown & Company, pp. 439-463, 1967.
- Alexander, E. R. and Grayston, J. T.: "Acute Infections of the Alimentary Tract", Clark, D. W. and MacMahon, B., Eds., in Preventive Medicine, Little, Brown & Company, pp. 465-489, 1967.

E. Russell Alexander

Urrutia, J. J., Mata, L. J., Trent, F., Cruz, J. R., Villatoro, E., and Alexander, E. R.: Infection and infectious disease during pregnancy. Study in an Indian village of Guatemala.

ABSTRACTS:

Langmuir, A. D., Alexander, E. R., Brody, J. A., and Wylie, H.: Surveillance of Poliomyelitis in the United States, 1955-1959. American Public Health Association, Eighty-Seventh Annual Meeting, Atlantic City, N. J., October 1959.

Alexander, E. R.: Immunizations. Georgia Public Health Association. 31st Annual Convention, May 1960.

Alexander, E. R. and Langmuir, A. D.: Poliomyelitis problems from the viewpoint of the pediatrician. Abstracts of the 109th Assembly of the AMA, June 1960.

Alexander, E. R.: Infections in Hospitals. American Hospital Association 31st Annual Meeting, August 1960.

Alexander, E. R.: Symposium on the present status of Poliomyelitis Immunization (Extent of the problem). Scientific Assembly of the Clinical Meeting of the AMA, November 1960.

Alexander, E. R.: Recent Advances in the Control of Certain Virus Diseases. American Association for Health, Physical Education and Recreation, 29th Annual Convention, Northwest District, April 1961.

Alexander, E. R.: What's New in Pediatrics. Washington State Medical Association, 72nd Annual Convention, September 1961.

Alexander, E. R.: The Epidemiology and Prevention of Measles. Washington State Public Health Association, 27th Annual Meeting, September 1962.

Alexander, E. R.: Measles Vaccine. Western Branch, American Public Health Association, Phoenix, Arizona, May 1963.

Alexander, E. R.: Measles vaccine efficacy in Seattle. Washington State Medical Association Pediatrics Section, September 1963.

Grayston, J. T., Alexander, E. R., Kenny, G. E., and Clarke, E. R.: Clinical and epidemiologic studies of Mycoplasma pneumoniae infections. Clin. Res., 12: 112, 1964.

Alexander, E. R., Kenny, G. E., MacColl, W., Foy, H. M., and Grayston, J. T.: The clinical manifestations of Eaton PPLO Infection. The Society for Pediatric Research, 34th annual meeting, Seattle, June 1964.

Alexander, E. R.: Prevention of measles: a review of recent studies in Seattle, Alaska and Taiwan. The 57th Annual Meeting of Formosan Medical Association, 1964.

E. Russell Alexander

- Grayston, J. T., Alexander, E. R., Kenny, G. E., and Clarke, E. R.: Clinical epidemiological studies of Mycoplasma pneumoniae infections. Clin. Res., 12: 112, 1964.
- Foy, H. M., Grayston, J. T., Kenny, G. E., Alexander, E. R., and McMahan, R.: Epidemiology of Mycoplasma pneumoniae infection by household investigation. Clin. Res., 4: 172, 1966.
- Alexander, E. R. and Emanuel, I.: The effect of prior inactivated measles vaccine on clinical and serologic response to intranasal Edmonston virus passaged only in human kidney and amnion. Proceedings of the XIth International Post Congress Assembly, Kyoto, Japan, 1966.
- Alexander, E. R.: One year follow-up of live measles vaccination in infancy modified by prior inactivated vaccine or with immune globulin. Proceedings of the XIth International Post Congress Assembly, Kyoto, Japan, 1966.
- Tin, N., Alexander, E. R., Li, Y. G., Chiang, B. N., Chi, I. C., Bruce, R. A., and Grayston, J. T.: Prospective study of cardiovascular disease on Taiwan. A preliminary report regarding characteristics of myocardial ischemia. International Congress of Cardiology, New Delhi, India, 1966.
- Li, Y. B., Ting, N., Alexander, E. R., Chiang, B. N., Bruce, R. A., and Grayston, J. T.: Electrocardiographic changes in graded treadmill and double Mater's exercise tests in middle-aged Chinese men. International Congress of Cardiology, New Delhi, India, 1966.
- Alexander, E. R.: Maternal and neonatal infection with cytomegalovirus in Taiwan. Proceedings of the Society for Pediatric Research, April 1967. Ped. Res., 1: 210, 1967.
- Ting, N., Li, Y. B., Chiang, B. N., Alexander, E. R., and Bruce, R. A.: Significance of maximal exercise ST responses in middle-aged Chinese men. Asian-Pacific Society of Cardiology, Proceedings. Israel, August 1968.
- Grayston, J. T., Kim, K. S. W., Wang, S. P., Detels, R., and Alexander, E. R.: Developmental studies of tachoma vaccines: recent results. Proceedings of the 8th. International Congress on Tropical Medicine and Malaria, Teheran, September, 1968.
- Alexander, E. R., Wang, S. P., and Grayston, J. T.: Further characterization of TRIC agent strains of genital origin. Proceedings of the 8th International Congress on Tropical Medicine and Malaria, Teheran, September 1968.
- Alexander, E. R. and Wentworth, B. B.: A prospective perinatal study of cytomegalovirus infection. Proceedings of the Annual Meeting of the American Public Health Association, Detroit, November 1968.
- Gutman, L. T., Clarke, E. J., Jr., and Alexander, E. R.: Pattern of infant acquisition of cytomegalovirus (CMV) infection in Taiwan. The Society for Pediatric Research, 39th annual meeting, May 1969.

E. Russell Alexander

- Alexander, E. R. and Fresh, J. W.: Prevention of anaphylactic death in the mouse toxicity prevention test for TRIC agents. *Amer. J. Ophthalm.*, 63: 1462-1469, 1967.
- Alexander, E. R., Wang, S-P., and Grayston, J. T.: Further classification of TRIC agents from ocular trachoma and other sources by the mouse toxicity prevention test. *Amer. J. Ophthalm.*, 63: 1469-1478, 1967.
- Alexander, E. R. and Chiang, W. T.: Infection of pregnant monkeys and their offspring with TRIC agents. *Amer. J. Ophthalm.*, 63: 1145-1153, 1967.
- Wang, S-P., Grayston, J. T., and Alexander, E. R.: Trachoma vaccine studies in monkeys. *Amer. J. Ophthalm.*, 63: 1615-1630, 1967.
- Dhir, S. P., Detels, R., and Alexander, E. R.: The role of environmental factors in cataract, pterygium and trachoma. *Amer. J. Ophthalm.*, 64: 128-135, 1967.
- Grayston, J. T., Kenny, G. E., Foy, H. M., Kronmal, R. A., and Alexander, E. R.: Epidemiological studies of Mycoplasma pneumoniae infections in civilians. *Ann. N. Y. Acad. Sci. Monograph, Biology of the Mycoplasmas*, 143: 436-446, 1967.
- Li, Y-B., Ting, N., Chiang, B-N., Alexander, E. R., Bruce, R. A., and Grayston, J. T.: Electrocardiographic response to maximal exercise and double master exercise tests in middle-aged Chinese men. *Amer. J. Cardiol.*, 20: 541-548, 1967.
- Chiang, B. N., Ting, N., Li, Y. B., Pao, Y. L., Alexander, E. R., Bruce, R. A., and Grayston, J. T.: Maximal exercise responses in middle aged hypertensive and normotensive Chinese males: A preliminary report. *Chinese Med. J.*, 14: 239-250, 1967.
- Chiang, W. T., Alexander, E. R., Wei, P. Y., Fresh, J. W.: Genital infection with TRIC agents in Taiwan. *Amer. J. Obstet. Gynec.*, 100: 422-431, 1968.
- Yang, C. S., Kuo, C. C., DeFavero, J. E., and Alexander, E. R.: Care and raising of newborn Taiwan monkeys (Macaca cyclopis) for virus studies. *Lab. Anim. Care*, 18: 536-543, 1968.
- Chiang, B. N., Alexander, E. R., Bruce, R. A., and Ting, N.: Physical characteristics and exercise performance of pedicab and upper socioeconomic classes of middle-aged Chinese men. *Amer. Heart J.*, 76: 760-768, 1968.
- Alexander, E. R., Wang, S. P., Grayston, J. T.: Further characterization of TRIC agent strains of genital origin. *Rev. Int. de Trachome*, 45: 297-306, 1968.
- Chiang, B. N., Alexander, E. R., Bruce, R. A., Thompson, D. J., and Ting, N.: Factors related to ST-segment depression after exercise in middle-aged Chinese men. *Circulation*, 40: 315-325, 1969.
- Foy, H. M. and Alexander, E. R.: "Mycoplasma pneumoniae infections in childhood," Schulman, J., Ed. in Advances in Pediatrics, Year Book Medical Publishers, Inc., 16: 301-323, 1969.
- Clarke, E. J., Jr., Phillips, R. A., and Alexander, E. R.: Adenovirus infection in intussusception in children in Taiwan. *J.A.M.A.*, 208: 1671-1674, 1969.
- Ting, N., Li, Y. B., Chiang, B. N., Alexander, E. R., Bruce, R. A.: Significance of maximal exercise ST responses in middle-aged Chinese men. *Israel J. Med. Sci.*, 5: 691-695, 1969.

E. Russell Alexander

- Lee, S. S. and Alexander, E. R.: Aortic and coronary atherosclerosis in Taiwan: A clinico-pathologic study of 108 cases. *Chinese Med. J.*, 16: 88-99, 1969.
- Bruce, R. A., Alexander, E. R., Li, Y. B., Chiang, B. N., Ting, N., and Hornsten, T. R.: "Electrocardiographic responses to maximal exercise in American and Chinese population samples." In Measurement in Exercise Electrocardiography (Blackburn, H., Ed.), Charles C. Thomas, Springfield. pp 413-444, 1969.
- Chiang, W. T., Wentworth, B. B., and Alexander, E. R.: The use of an immunofluorescence technique for the determination of antibodies to cytomegalovirus strains in human sera. *J. Immunol.*, 104: 992-999, 1970.
- Gutman, R. A., Alexander, E. R., Li, Y-B., Chiang, B-N., Watten, R. H., Ting, N., and Bruce, R. A.: Delay of ST depression after maximal exercise by walking for 2 minutes. *Circulation*, 42: 229-233, 1970.
- Wentworth, B. B. and Alexander, E. R.: Seroepidemiology of infection due to members of the herpesvirus group. *Am. J. Epidemiol.*, 94: 496-507, 1971.
- Grayston, J. T., Kim, K. S. W., Alexander, E. R., and Wang, S. P.: "Protective studies in monkeys with trivalent and monovalent trachoma vaccines." In Trachoma and Related Disorders Caused by Chlamydial Agents (Nichols, R. L., Ed.), Excerpta Medica, Amsterdam, pp 489-493, 1971.
- Wentworth, B. B., Bonin, P., Holmes, K. K., Gutman, L., Wiesner, P., and Alexander, E. R.: Isolation of viruses, bacteria and other organisms from venereal disease clinic patients: methodology and problems associated with multiple isolations. *Health Lab. Sci.*, 10: 75-81, 1973.
- Alexander, E. R.: Cancer of the cervix: possible etiologies other than herpesvirus. *Cancer Res.*, 33: 1485-1496, 1973.
- Wentworth, B. B. and Alexander, E. R.: Isolation of Chlamydia trachomatis by use of 5-Iodo-2-Deoxyuridine-treated cells. *Appl. Micro.*, 27: 912-916, 1974.
- Kue, C-C., Wang, S-P., Grayston, J. T., and Alexander, E. R.: TRIC type K, a new immunologic type of Chlamydia trachomatis. *J. Immunol.*, 113: 591-596, 1974.
- Bruce, R. A., Pao, Y-I., Ting, N., Chiang, B. N., Li, Y-B., Chiang, S. T., Alexander, E. R., Beasley, R. P., and Fisher, L. D.: Seven-year follow-up of cardiovascular study and maximal exercise testing of Chinese men. *Circulation*, (In press) 1974.
- Kleinman, A. M., Kunstadtler, P., Alexander, E. R., and Gale, J. L.: Medicine in Chinese Cultures: comparative studies of health care in Chinese and other societies. Fogarty International Center Monograph, (In press) 1974.
- Wang, S., Grayston, J. T., Alexander, E. R., and Holmes, K. K.: A simplified micro immunofluorescence test with Trachoma-LGV (Chlamydia trachomatis) antigens for use as a screening test for antibody. *Applied Microbiol.*, November 8, 1974.

E. Russell Alexander

- Alexander, E. R.: The epidemiology of cytomegalovirus infection. *Proceedings of the Annual Formosan Medical Association*, November 1968.
- Wentworth, B. B. and Alexander, E. R.: Sero-epidemiology of certain members of the herpes virus group in an urban population. Presented at the American Public Health Association Annual Meeting, October 1970, Houston, Texas.
- Grayston, J. T., Kim, K. S. W., Alexander, E. R., and Wang, S. P.: Protective studies in monkeys with trivalent and monovalent trachoma vaccines. *Proceedings of International Conference on Trachoma*, Boston, 1970.
- Alexander, E. R.: Cytomegalovirus infections in pregnancy. American College of Obstetrics and Gynecology, Annual Meeting, San Francisco, May 1971.
- Alexander, E. R., Gale, J. L., Chiang, W. T.: Cytomegalovirus cervical infection -- a venereal disease? *Proc. 120th AMA Annual Convention*, Atlantic City, N. J. p. 57, June 1971.
- Alexander, E. R.: Discussant: Disease control in China. Conference on Public Health in the People's Republic of China, May 1972. Macy Foundation, New York. (In press)
- Gutman, L. T., Wiesner, P. J., Holmes, K. K., Wentworth, B. B., and Alexander, E. R.: Microbiologic correlates of cervicitis. *Clin. Res.*, 20: 529, 1972.
- Handsfield, H. H., Holmes, K. K., Wentworth, B. B., Pedersen, A. H. B., Turck, M., and Alexander, E. R.: Etiology and treatment of nongonococcal urethritis. (In press)
- Eschenbach, D. A., Alexander, E. R., Wentworth, B. B., Buchanan, T. M., and Holmes, K. K.: Etiology, clinical manifestations, and treatment of acute Salpingitis. American College of Ob-Gyn, Honolulu, November 1973.
- Alexander, E. R., Skahan, P. G., and Holmes, K. K.: Sensitivity of Chlamydia trachomatis to spectinomycin, gentamicin, streptomycin. Presented at annual meeting of American Society for Microbiology, San Francisco, September 1974.



LAWRENCE R. ASH, Ph.D.
BUMED Consultant
Medical Ecology Department

PLACE AND DATE OF BIRTH
Holyoke, Massachusetts - 5 March 1933

EDUCATIONAL BACKGROUND	
University of Massachusetts (B.S.)	1954
University of Massachusetts (M.A.)	1956
Tulane University (Ph.D)	1960

PROFESSIONAL POSITIONS:

1960-1961	Assistant Parasitologist, University of Hawaii, Honolulu, Hawaii.
1962-1965	Instructor in Parasitology, Tulane University Medical School, New Orleans, Louisiana.
1965-1967	Medical Parasitologist with Laboratory of Infectious Diseases, Pacific Research Section, National Institutes of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland. Seconded to South Pacific Commission, Noumea, New Caledonia.
1967-present	Associate Professor of Parasitology, Division of Infectious and Tropical Diseases, School of Public Health, University of California, Los Angeles, California.
1970-present	BUMED Consultant, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

American Society of Parasitologists
American Society of Tropical Medicine and Hygiene
Helminthological Society of Washington
Royal Society of Tropical Medicine and Hygiene
British Society for Parasitology
American Association for the Advancement of Science
American Association of University of Professors
Southern California Parasitologists
Wildlife Disease Association
Sigma XI
Southwestern Association of Parasitologists

Lawrence R. Ash

PUBLICATIONS:

- Miyazaki, I. and Ash, L. R.: On the gnathostome larva found from snakes in New Orleans, U. S. A. Abstract, Jap. J. Parasit. 8: 351-352, 1959.
- Malek, E. A., Ash, L. R., Lee, H. F., and Little, M. D.: Schistosomiasis in Louisiana mammals. J. Parasit. 46: (5, Sec. 2) 34, 1960.
- Ash, L. R.: Life cycle studies on Gnathostoma procyonis Chandler, 1942, a nematode parasite of the raccoon. J. Parasit. 46: (5, Sec. 2) 37, 1960.
- Ash, L. R. and Beaver, P. C.: A restudy of Ophidascaris labiatopapillosa occurring in the stomach of North American snakes. J. Parasit. 48: (2, Sec. 2) 41, 1962.
- Ash, L. R.: Effect of temperature upon survival of first-stage larvae of Angiostrongylus cantonensis. Proc. VIIth Internatl. Cong. Trop. Med. Malaria 2: 193-194, 1964.
- Ash, L. R.: The role of lungworms of the genus Angiostrongylus in causing diseases in animals. Am. Soc. Parasit. 43rd Meeting, p. 33, 1968.
- Ash, L. R. and Riley, J. M.: Observations on the development of Brugia pahangi in small laboratory animals. Am. Soc. Parasit. 44th Meeting, p. 47, 1969.
- Ash, L. R. and Riley, J. M.: Studies on the successful transmission of Brugia pahangi and subperiodic B. malayi to the jird, Meriones unguiculatus. Proc. Second Internatl. Cong. Parasit., Part I, p. 11, 1970.
- Wesley, I. V. and Ash, L. R.: Gonadectomized and hormone-treated jirds as hosts for Brugia pahangi. Am. Soc. Parasit. 47th Meeting, 33-34, 1972.
- Harbut, C. L. and Ash, L. R.: The white rat and golden hamster as experimental hosts for Brugia pahangi and subperiodic Brugia malayi. Am. Soc. Parasit., 47th Meeting, p. 35, 1972.
- Ash, L. R.: Development of Brugia pateri in the jird, Meriones unguiculatus. Am. Soc. Parasit., 48th Meeting, p. 29, 1973.
- Cross, J. H., Partono, F., Hsu, M. Y., Ash, L. R., and Oemijati, S.: Early development of Wuchereria bancrofti in the Mongolian gerbil (Meriones unguiculatus) and the Taiwan monkey (Macaca cyclopis). 12th Southeast Asian Regional Seminar on Tropical Medicine and Public Health and 4th Seminar on Tropical Medicine, Seoul, "Seminar on Biology, Immunology and Treatment of Parasitic and Bacterial Diseases of Public Health Importance in Southeast Asia and the Far East", Seoul, Korea, 1973.
- Ash, L. R.: Use of the jird, Meriones unguiculatus, as a laboratory host for filarial species of the genus Brugia. Proc. Ninth Internatl. Cong. Trop. Med. Malaria, 2: 120, 1973.

Lawrence R. Ash

- Cross, J. H., Partono, F., Hsu, M. Y., Ash, L. R., and Oemijati, S.: Development of Wuchereria bancrofti in the Mongolian gerbil and Taiwan monkey. Proc. Third Internatl. Cong. Parasit. 2: 613, 1974.
- Malek, E. A., Ash, L. R., Lee, H. F., and Little, M. D.: Heterobilharzia infection in the dog and other mammals in Louisiana. J. Parasit. 47: 619-623, 1961.
- Ash, L. R.: Cooperia punctata in axis deer (Cervus axis) in Hawaii. J. Parasit. 47: 446, 1961.
- Ash, L. R.: Helminth parasites of dogs and cats in Hawaii. J. Parasit. 48: 63-65, 1962.
- Ash, L. R.: The helminth parasites of rats in Hawaii and the description of Capillaria traveræ sp. n. J. Parasit. 48: 66-68, 1962.
- Ash, L. R.: Development of Gnathostoma procyonis Chandler, 1942, in the first and second intermediate hosts. J. Parasit. 48: 293-305, 1962.
- Ash, L. R.: Migration and development of Gnathostoma procyonis Chandler, 1942, in mammalian hosts. J. Parasit. 48: 306-313, 1962.
- Thrasher, J. P. and Ash, L. R.: Confirmation of direct smear technic in heartworm diagnosis. Small Animal Clin. 2: 258-260, 1962.
- Thrasher, J. F., Ash, L. R., and Little, M. D.: Filarial infections of dogs in New Orleans. J. Am. Vet. Med. Assoc. 143: 605-608, 1962.
- Ash, L. R.: Book review - "Parasitology Laboratory Manual" by S. C. Schell. Am. J. Trop. Med. Hyg. 12: 836, 1963.
- Ash, L. R. and Beaver, P. C.: Redescription of Ophidascaris labiatopapillosa Walton, 1927, an ascarid parasite of North American snakes. J. Parasit. 49: 765-770, 1963.
- Ash, L. R. and Little, M. D.: Brugia beaveri sp. n. (Nematoda: Filarioidea) from the raccoon (Procyon lotor) in Louisiana. J. Parasit. 50: 119-123, 1964.
- Beaver, P. C., Yoshida, Y. and Ash, L. R.: Mating of Ancylostoma caninum in relation to blood loss in the host. J. Parasit. 50: 286-293, 1964.
- Orihel, T. C. and Ash, L. R.: Occurrence of Dirofilaria striata in the bobcat (Lynx rufus) with observations on its larval development. J. Parasit. 50: 590-591, 1964.
- Ash, L. R.: Angiostrongylus michiganensis sp. n. (Nematoda: Metastrongyloidea), a lungworm occurring in the shrew, Sorex cinereus cinereus in Michigan. J. Parasit. 53: 625-629, 1967.
- Ash, L. R.: Editor of Report: "Seminar on Helminthiases and Eosinophilic Meningitis", South Pacific Commission, Noumea, New Caledonia, June 1967, 39 pp., 1967.
- Ash, L. R.: Techniques useful in the laboratory diagnosis of parasitic infections. Seminar on Helminthiases and Eosinophilic Meningitis, Noumea, New Caledonia, June 5-16, 1967. Noumea: South Pacific Commission. Working Paper N° 12, 13 pp., 1967.

Lawrence R. Ash

- Ash, L. R.: Pathogenesis and clinical manifestations of the soil-transmitted helminths. Seminar on Helminthiases and Eosinophilic Meningitis, Noumea, New Caledonia, June 5-16, 1967. Noumea: South Pacific Commission. Working Paper N° 17, 4 pp., 1967.
- Ash, L. R.: The occurrence of Angiostrongylus cantonensis in frogs of New Caledonia with observations on paratenic hosts of metastrongyles. J. Parasit. 54: 432-436, 1968.
- Ash, L. R.: Laboratory Techniques in the Diagnosis of Some Intestinal Parasitic Infections. Handbook Number 4. South Pacific Commission, Noumea, New Caledonia. 24 pp., 1968.
- Rosen, L., Ash, L. R., and Wallace, G. D.: The life history of the dog lungworm, Angiostrongylus vasorum (Baillet). Am. J. Vet. Res. 31: 131-143, 1970.
- Ash, L. R.: Diagnostic morphology of the third-stage larvae of Angiostrongylus cantonensis, A. vasorum, Aelurostrongylus abstrusus, and Anafilaroides rostratus (Nematoda: Metastrongyloidea). J. Parasit. 56: 249-253, 1970.
- Ash, L. R. and Riley, J. M.: Development of Brugia pahangi in the jird, Meriones unguiculatus, with notes on infections in other rodents. J. Parasit. 56: 962-968, 1970.
- Ash, L. R. and Riley, J. M.: Development of subperiodic Brugia malayi in the jird, Meriones unguiculatus, with notes on infections in other rodents. J. Parasit. 56: 969-973, 1970.
- Morera, P. and Ash, L. R.: Investigacion del hoesped intermediario de Angiostrongylus costaricensis (Morera y Cespedes, 1971). Bol. Chileno de Parasit. 25: 135, 1971.
- Ash, L. R.: Preferential susceptibility of male jirds (Meriones unguiculatus) to infection with Brugia pahangi. J. Parasit. 57: 777-780, 1971.
- Ash, L. R. and Schacher, J. F.: Early life cycle and larval morphogenesis of Wuchereria bancrofti in the jird, Meriones unguiculatus. J. Parasit. 57: 1043-1051, 1971.
- Ash, L. R.: A brief review of the biology of the genus Capillaria Zeder, 1800. Proc. 7th SEAMEO Trop. Med. Seminar on Infectious Diseases of the Gastrointestinal System in Southeast Asia and the Far East, 28 September - 2 October 1970; 255-258, 1971.
- Ash, L. R.: Chronic Brugia pahangi and Brugia malayi infections in Meriones unguiculatus. J. Parasit. 59: 442-447, 1973.
- Ash, L. R.: Book review - "Parasites of Man in Niugini" by W. H. Ewers and W. T. Jeffrey. Am. J. Trop. Med. Hyg. 22: 436-437, 1973.
- Ash, L. R.: Life cycle of Brugia patoi (Buckley, Nelson and Heisch, 1958) in the jird, Meriones unguiculatus. J. Parasit. 59: 692-695, 1973.
- Ash, L. R.: Rodent models for the study of lymphatic-dwelling filarial worms. WHO/FIL/74.121; 14 pp. (Mimeograph), 1973.
- Garcia, L. R. and Ash, L. R.: "Diagnostic Parasitology. Clinical Laboratory Manual" C. V. Mosby and Co.; (In press).



WEN TSUO CHIANG, M.D.
Consultant
Epidemiology and Clinical Investigation
Department

PLACE AND DATE OF BIRTH:
Taiwan, China - 2 October 1930

EDUCATIONAL BACKGROUND:
National Taiwan University
(M.D.) 1957
University of Washington, Seattle
(M.S.) 1969

PROFESSIONAL POSITIONS:

1956-1958 Intern, National Taiwan University Hospital, Taipei, Taiwan.
1960-1963 Resident, National Taiwan University Hospital, OBG, Taipei, Taiwan.
1963-1964 Chief Resident, National Taiwan University Hospital, OBG, Taipei, Taiwan.
1964-1967 Clinical Research Fellow, U. S. Naval Medical Research Unit No. 2,
Taipei, Taiwan.
1967-1969 Senior Fellow, Department of Preventive Medicine, University of
Washington, Seattle, Washington.
1969-1972 Instructor, Department of Obstetrics and Gynecology Medical
College, National Taiwan University, Taipei, Taiwan.
1971-present Consultant, Epidemiology and Clinical Investigation Department, U. S.
Naval Medical Research Unit No. 2, Taipei, Taiwan.
1972-present Associate Professor, Department of Obstetrics and Gynecology Medical
College, National Taiwan University, Taipei, Taiwan.
1972-present Visiting Physician, Department of Obst. & Gynec. National Taiwan
University Hospital, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Association of Gynecology and Obstetrics of the Republic of China.
International Federation of Obstetrics and Gynecology.

PUBLICATIONS:

Chen, H. Y., Lang, C. C., Wu, W. K., Lin, T. H., Hshih, H. K., Chiang, W. T.,
and Wei, P. Y.: A study of hyoscin-N-butyl bromide effect on cervical dilatta-
tion, using graphical analysis of cervicometry. J. Formosan Med. Assoc.
60: 438, 1961.

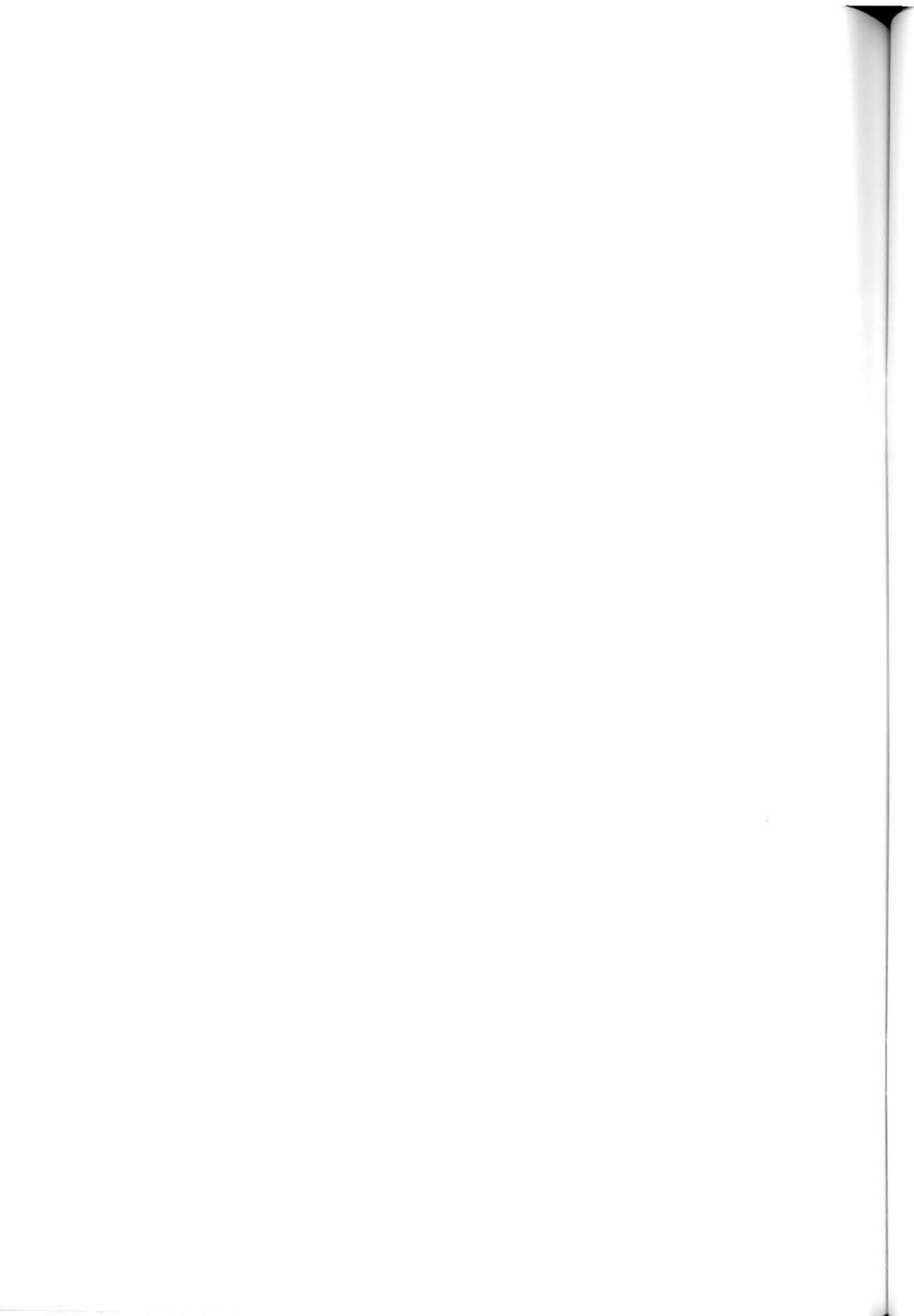
Chiang, W. T. and Lee, S. L.: Ruptured pregnant rudimentary uterine horn. A
case report. J. Assoc. Obst. Gynec. of the Republic of China 2: 39-43, 1963.

Wen Tsuo Chiang

- Chiang, W. T., Lee, T. Y., and Wu, C. C.: Pregnancy in myasthenia gravis - Review of literature and report of a case. *J. Assoc. Obst. Gynec. of the Republic of China* 2: 108-111, 1963.
- Chen, S. Y. and Chiang, W. T.: Monoamniotic twins at National Taiwan University Hospital - Report of six cases. *J. China* 3: 60-64, 1964.
- Chiang, W. T. and Wei, P. Y.: Oxytocin and milk ejection. *J. Assoc. Obst. Gynec. of the Republic of China* 3: 151-154, 1964.
- Chiang, W. T. and Wei, P. Y.: Sequential ethinyl estradiol and megestrol acetate therapy for contraception. A Clinical Study *J. Assoc. Obst. Gynec. of the Republic of China* 7: 108-113, 1968.
- Chiang, W. T. and Kuo, T. C.: Acarius: Report of a case in a set of tripeets. *J. Assoc. Obst. Gynec. of the Republic of China* 5: 157-160, 1966.
- Chen, H. Y., Chiang, W. T., and Yeh, S. A.: Clinical experience of the vacuum extractor. A comparison with forceps. *J. Assoc. Obst. Gynec. of the Republic of China* 5: 8597, 1966.
- Wei, P. Y., Chiang, W. T., Lin, C. C., Luh, H. S., Tsai, Y. C., Chen, J. S., Wang, C. C., and Tseng, S. J.: Prospective screening study of hemoglobin bart's among newborn infants in Taiwan. *J. Assoc. Obst. Gynec. of the Republic of China* 7: 157-166, 1967.
- Chiang, W. T. and Chiang, W. H.: Clinical and Cytogenetic Studies in Klinefelter's Syndrome in Chinese Men. *J. Obst. Gynec. of the Republic of China*. 9: 49-53, 1970.
- Chiang, W. T.: Cytogenetic Studies of Primary Amenorrhea Chinese Patients. *J. Obst. Gynec. of the Republic of China* 10: 115-118, 1971.
- Chiang, W. T., Alexander, E. R., Wei, P. Y., and Fresh, J. W.: Genital infection with TRIC agents in Taiwan. *Am. J. Obstet. Gynecol.* 100: 522, 1968.
- Alexander, E. R., and Chiang, W. T.: Inoculation of pregnant monkeys and their offspring with TRIC agents. *Am. J. Ophthalmol.* 63: 119-127, 1967.
- Wei, P. Y. and Chiang, W. T.: Tissue culture study of abnormal trophoblasts. Growth pattern and nuclear sex. *Am. J. Obstet. Gynecol.* 98: 1144-1147, 1967.
- Wei, P. Y. and Chiang, W. T.: Hydrops fetalis in Taiwan. *Journal of the International Federation of Gynecology and Obstetrics* 5: 16-27, 1967.
- Chiang, W. T. and Chiang, W. H.: Undetected klinefelter's syndrome as a cause of azoospermia. *Am. J. Obstet. Gynecol.* 103: 592-593, 1969.
- Chiang, W. T.: Cytogenetic Studies of Primary Amenorrhea in Chinese Patients. *Am. J. Obstet. Gynecol.* 103: 1173-1174, 1969.

Wen Tsuo Chiang

- Nahmias, A. J., Chiang, W. T., Buono, I. Del, and Duffey, A.: Typing of herpesvirus hominis strains by a direct immunofluorescent technique, Proc. Soc. EXPTL biol and Med. 132: 386-390, 1969.
- Chiang, W. T., Wentworth, B. B., and Alexander, E. R.: The use of an immunofluorescent technique for the determination of antibodies to cytomegalovirus strains in human sera. J. Immunol. 104: 4, 1970.
- Emanuel, I., Huang, S. H., Chiang, W. T., Yang, C. P.: Trisomy 18 syndrome in Chinese infants. Clinical findings and incidence. J. Med. Genet. Vol. 7, 1970.
- Lin, C. C., Chiang, W. T., Gutman, U., Wei, P. Y.: Hydrops Fetalis in Taiwan Etiologic Studies International Journal of Gynecology and Obstetrics 9: 157-163, 1971.
- Blackwell, R. Q., Huang, J. T. H., Liu, C. S., and Chiang, W. T.: Precocious Synthesis of Adult Haemoglobin in Chinese Neonates in Taiwan. Vox Sang. 20: 381-383, 1971.
- Chiang, W. T., Wei, P. Y.: Immunoglobulins in hydrops fetalis. Am. J. Obstet. Gynecol. Nov. 1972.





JUI KUANG CHIU, Dr. Med. Sc.
Consultant
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Taiwan, China - 31 March 1930

EDUCATIONAL BACKGROUND:

National Taiwan University (B.S.)	1953
Tulane University, New Orleans (M.P.H.)	1963
Kyushu University, Fukuoka, Japan (Dr. Med. Sc.)	1965

PROFESSIONAL POSITIONS:

1954-1959	Teaching Assistant of Parasitology, National Taiwan University College of Medicine.
1959-1963	Instructor of Parasitology, National Taiwan University College of Medicine
1962-1963	U. S. Agency for International Development Technical Training Fellowships.
1963-1969	Associate Professor of Parasitology, National Taiwan University College of Medicine.
1969-present	Professor of Parasitology, National Taiwan University College of Medicine.
1971-present	Professor and Chairman of Department of Parasitology, National Taiwan University College of Medicine.
1967-present	Consultant, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

American Society of Parasitologists
Helminthological Society of Washington
Japanese Society of Parasitology
Formosan Medical Association
Chinese Society of Microbiology
Chinese Society of Veterinary Science

FIELDS OF INTEREST:

Biological Control and immunology of Schistosoma japonicum.
Life cycle of Raillietina celebensis

PUBLICATIONS:

Jui Kuang Chiu

- Huang, W. H., Chiu, J. K., and Kao, C. T.: The incidence of intestinal parasites among the elementary school children in Taitung Prefecture, Taiwan. J. Formosan Med. Assoc. 56: 264-284, 1957.
- Huang, W. H. and Chiu, J. K.: The incidence of Paragonimus metacercaria infection in Eriocheir japonicus being marketed in Taipei, Taiwan. J. Formosan Med. Assoc. 57: 158-168, 1958.
- Chiu, J. K. and Kao, C. T.: The incidence of intestinal parasites among the elementary school children in Hualien Prefecture, Taiwan. J. Formosan Med. Assoc. 58: 101-116, 1959.
- Chiu, J. K.: Gnathostoma doloresi Tubangui, 1925 (Nematoda: Gnathostomidae) found in Formosan wild boar. J. Formosan Med. Assoc. 58: 261-268, 1959.
- Chiu, J. K.: Microphalloides japonicus (Osborn, 1919) Yoshida, 1938 (Trematoda: Microphallidae) from river crabs of Taiwan (Formosa). Chinese Med. J., 7: 103-110, 1960.
- Huang, W. H., Chiu, J. K., and Kao, C. T.: The present status of intestinal helminthic infections among the elementary school children in the central part of Taipei, Taiwan. J. Formosan Med. Assoc. 59: 385-398, 1960.
- Huang, W. H., Chiu, J. K., and Kao, C. T.: The incidence of oxyuriasis among school children in urban and rural areas in northern Taiwan. J. Formosan Med. Assoc. 59: 757-767, 1960.
- Huang, W. H. and Chiu, J. K.: Resurvey of the incidence of intestinal helminthic infections among school children in a rural area in northern Taiwan. J. Formosan Med. Assoc. 60: 216-227, 1961.
- Chiu, J. K.: Macrostromtrems tamsuiensis, n. gen., n. sp. (Trematoda: Microphallidae) from river crabs of Taiwan (Formosa). Proceed Helminth. Soc. Washington 28: 200-206, 1961.
- Chiu, J. K.: Two species of Paragonimus occurring at Alilao village of Taipei County, Taiwan (Formosa). Kyushu J. Med. Sci. 13: 51-66, 1962.
- Chiu, J. K.: Intermediate hosts of Paragonimus westermani at Shen-keng district of Taipei County, Taiwan (Formosa). J. Parasit. 48: 423-426, 1962.
- Chiu, J. K. and Tsai, Y. H.: Parasitism of Paragonimus iloktsuenensis metacercariae in Potamon crabs. Chinese Med. J. 11: 345-352, 1964.
- Chiu, J. K.: Snail hosts of Angiostrongylus cantonensis in Taipei, Taiwan. Bull. Inst. Zool., Academia Sinica, 3: 55-62, 1964.
- Chiu, J. K.: Prevalence of Paragonimus infection in crab hosts in Taiwan. Bull. Inst. Zool., Academia Sinica, 3: 63-73, 1964.

Jui Kuang Chiu

- Chiu, J. K.: Parasitism of Paragonimus westermani metacercariae in Potamon crabs. J. Formosan Med. Assoc. 64: 36-43, 1965.
- Chiu, J. K.: Tricula chiui: a new snail host for Formosan strain of Schistosoma japonicum. J. Parasit. 51: 206, 1965.
- Miyake, S. and Chiu, J. K.: A new potamonid crab, Potamon (Geothelphusa) miyazakii sp. nov., as an intermediate host of the lung-fluke from Formosa. J. Faculty Agr., Kyushu Univ. 13: 595-603, 1965.
- Chiu, J. K.: Tricula chiui Habe et Miyazaki, 1962: a snail host for Paragonimus iloktsuenensis Chen, 1940 in Taiwan. Japan. J. Parasit. 14: 269-280, 1965.
- Huang, W. H., Chiu, J. K., Lu, S. C., and Chen, H. H.: Epidemiologic studies of Paragonimus westermani (Kerbert, 1878) and related species in Taiwan (Formosa). I. Distribution pattern of Paragonimus westermani metacercariae in Eriocheir crabs. J. Formosan Med. Assoc. 65: 141-152, 1966.
- Huang, W. H. and Chiu, J. K.: Epidemiologic studies of Paragonimus westermani (Kerbert, 1878) and related species in Taiwan (Formosa). II. Seasonal variations in the incidence of Paragonimus westermani infection in Eriocheir japonicus. J. Formosan Med. Assoc. 65: 529-536, 1966.
- Chiu, J. K.: Susceptibility of Oncomelania hupensis chiui to infection with Schistosoma japonicum. Malacologia 6: 145-153, 1967.
- Yoshida, Y., Okamoto, K., and Chiu, J. K.: Ancylostoma ceylanicum infection in dogs, cats and man in Taiwan. Amer. J. Trop. Med. Hyg. 17: 378-381, 1968.
- Chiu, J. K.: Cercaria production of geographic strains of Schistosoma japonicum in Oncomelania hupensis chiui. J. Formosan Med. Assoc. 67: 259-265, 1968.
- Chiu, J. K.: Susceptibility of Oncomelania hupensis chiui and related snails to infection with Paragonimus. J. Formosan Med. Assoc. 68: 7-14, 1969.
- Chiu, J. K. and Lu, S. C.: Susceptibility of various species of mammals to infection with Ilan strain of Schistosoma japonicum. Proceed. 4th Southeast Asian Seminar on Parasit. and Trop. Med. 49-56, 1969.
- Chiu, J. K.: Paragonimiasis in Taiwan. Proceed. 4th Southeast Asian Seminar on Parasit. and Trop. Med. 285-295, 1969.
- Chiu, J. K.: Tapeworm infections diagnosed in Department of Parasitology National Taiwan University Medical College during the past ten years. Proceed. 7th SEAMEO Trop. Med. Seminar on Inf. Dis. of Gastrointestinal System in Southeast Asia and Far East, 273-274, 1970.
- Chiu, J. K.: Host-parasite relationships of Schistosoma japonicum in Taiwan. J. Formosan Med. Assoc. 69: 540-541, 1970.

Jui Kuang Chiu

- Bruce, J. I., Ruff, M. D., Chiu, J. K., and Hansen, B. D.: Oxygen consumption of Clonorchis sinensis. Chinese J. Microbiol. 4: 40-44, 1971.
- Bruce, J. I., Ruff, M. D., Chiu, J. K., and Howard, L.: Schistosoma mansoni and Schistosoma japonicum: Oxygen uptake by miracidia. Exp. Parasit. 30: 124-131, 1971.
- Chiu, J. K., Su, K. E., Kao, C. T., and Chiu, P. C.: Schistosome skin testing and intestinal parasite survey among inhabitants of Yuan-shan, Ilan County, Taiwan. Chinese J. Microbiol. 4: 106-115, 1971.
- Dusanic, D. G. and Chiu, J. K.: Proteins and dehydrogenase isozymes of Oncomelania. Chinese J. Microbiol. 4: 232-236, 1971.
- Yoshida, Y., Okamoto, K., and Chiu, J. K.: Experimental infection of man with Ancylostoma ceylanicum Looss, 1911. Chinese J. Microbiol. 4: 157-167, 1971.
- Bruce, J. I., Okabe, K., Crum, J. W., Cross, J. H., and Chiu, J. K.: Utilization of carbohydrates by Clonorchis sinensis. Chinese J. Microbiol. 4: 195-199, 1971.
- Ruff, M. D., Bruce, J. I., Chiu, J. K., and Hansen, B. D.: Paragonimus iloktsuenensis; Comparative respiration of life cycle stages. Chinese J. Microbiol. 4: 210-216, 1971.
- Chiu, J. K.: Studies on host-parasite relationships of Schistosoma japonicum in Taiwan. Annual Reports to U. S. Army Research & Development Group Far, East, Report Nos. FE-368-2, 4 & 6, 1969, 1970 & 1971.
- Bruce, J. I., Ruff, M. D., Hansen, B. D., Chiu, J. K., and Cross, J. H.: Paragonimus westermani: Influence of carbohydrates on respiration of four geographic strains with comparison to P. ohirai and P. iloktsuenensis. Southeast Asian J. Trop. Med. Pub. Hlth. 3: 87-92, 1972.
- Chiu, J. K. and Kao, C. T.: Studies on host-parasite relationships of Ilan strain of Schistosoma japonicum in animals. 1. Prepatent period. Chinese J. Microbiol. 6: 72-79, 1973.
- Chang, K. C., Sun, Y. L., and Chiu, J. K.: A survey on parasitic infections among aborigines in remote mountain area of Chien-Shih District, Hsinchu County, Taiwan. J. Formosan Med. Assoc. 72: 297-303, 1973.
- Chiu, J. K. and Su, K. E.: Immunodiffusion studies on sera from animals infected with Schistosoma japonicum. J. Formosan Med. Assoc. 73: 81-88, 1974.
- Cheng, L. Y., Chiu, J. K., and Suzuki, T.: Studies on immunodiagnosis of angiostrongyliasis. 2. Preliminary experiment for preparing specific antigen from Angiostrongylus cantonensis. Japan. J. Parasit. 23: 1974.

Jui Kuang Chiu

- Chiu, J. K. and Lin, Y. T.: Gnathostoma doloresi from pigs in Taiwan. Chinese J. Microbiol. 7: 107-108, 1974.
- Chiu, J. K. and Yu, J. Y.: A case of taeniid infection from Burma. J. Formosan Med. Assoc. 73: 679-680, 1974.
- Chiu, J. K. and Lu, S. C.: Studies on host-parasite relationships of Ilan strain of Schistosoma japonicum in animals. 2. Worm recovery rate. International Journal of Zoonosis 1:75-81, 1974.
- Chiu, J. K. and Lu, S. C.: Parasitological studies at a new breeding area of Oncomelania hupensis chiui in Taipei County, Taiwan. Chinese J. Microbiol. 8: 172-178, 1975.
- Chiu, J. K., Huang, R. J., Wang, Y. T., and Su, C. S.: Prevalence of enterobiasis among children in Taipei City, Taiwan, with an evaluation of pyrantel pamoate in treatment. J. Formosan Med. Assoc. 74: 728-733, 1975.
- Chiu, J. K.: Susceptibility of recombinants of Oncomelania hupensis formosana from different localities to infection with Schistosoma japonicum. National Sci. Council Monthly, 3: 1943-1946, 1975.



DONALD G. DUSANIC, Ph.D.
BuMed Consultant
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Chicago, Illinois - 15 December 1934

EDUCATIONAL BACKGROUND:

University of Chicago (B.S.)	1957
University of Chicago (M.S.)	1959
University of Chicago (Ph.D.)	1963

PROFESSIONAL POSITIONS:

1957-1958	Research Associate and Teaching Assistant, University of Chicago.
1958-1959	Logan Fellowship, University of Chicago.
1959-1963	United States Public Health Service Trainee, University of Chicago.
1963-1964	Instructor, University of Chicago, Department of Microbiology.
1964	Visiting Professor of Parasitology, University of Philippines, Institute of Hygiene, Manila.
1965	E. M. Watkins Faculty Fellowship, University of Kansas.
1964-1968	Assistant Professor of Microbiology, University of Kansas.
1968-1971	Associate Professor of Microbiology, University of Kansas.
1971-present	BuMed Consultant, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1971-present	Visiting Professor of Parasitology, National Taiwan University, College of Medicine, Taipei, Taiwan.
1971-1972	Professor of Microbiology, University of Kansas.
1972-present	Professor of Life Sciences, Indiana State University and Professor of Microbiology, Indiana University, School of Medicine.

PROFESSIONAL SOCIETIES:

American Society of Parasitologists
American Society of Tropical Medicine and Hygiene
American Society of Protozoologists
New York Academy of Science
Society of Sigma XI
Missouri Valley Branch of the American Society for Microbiology
Midwestern Conference of Parasitologists
Midwestern Conference of Immunologists
American Association of University Professors

Donald G. Dusanic

PUBLICATIONS:

- Lewert, R. M., Lee, C. L., Mandlowitz, S., and Dusanic, D. G.: Inhibition of the collagenase-like enzymes of cercariae of Schistosoma mansoni by serums and serum fractions. J. Infect. Dis. 105: 180, 1959.
- Dusanic, D. G.: Histochemical observations of alkaline phosphatase in Schistosoma mansoni. J. Infect. Dis. 105: 1, 1959.
- Lewert, R. M. and Dusanic, D. G.: The effects of a diaminodibenzylalkane on the histochemical reaction for alkaline phosphatase in adult Schistosoma mansoni. J. Parasitol. 46: 36, 1960.
- Mandlowitz, S., Dusanic, D. G., and Lewert, R. M.: Peptidase and lipase activity of extracts of Schistosoma mansoni cercariae. J. Parasitol. 46: 80, 1960.
- Dusanic, D. G. and Lewert, R. M.: Effects of a symmetrical diaminodibenzylalkane on the alkaline phosphatase of Schistosoma mansoni. J. Infect. Dis. 109: 85, 1963.
- Dusanic, D. G. and Lewert, R. M.: Alterations of Proteins and free amino acids of Australorbis glabratus hemolymph after exposure to Schistosoma mansoni miracidia. J. Infect. Dis. 112: 243, 1963.
- Dusanic, D. G. and Lewert, R. M.: The detection of soluble and insoluble antigen-antibody complexes of Trichinella spiralis and Schistosoma mansoni extracts electrophoretically separated in the presence of immune sera. J. Parasitol. 49: 34, 1964.
- Dusanic, D. G. and Lewert, R. M.: Electrophoretic studies of the antigen-antibody complexes of Trichinella spiralis and Schistosoma mansoni extracts and homologous antisera. J. Infect. Dis. 116: 270, 1966.
- Dusanic, D. G.: Serologic and enzymatic investigations of Trichinella spiralis. I. Precipitation reactions of lactic dehydrogenase. Exper. Parasitol. 19: 310, 1966.
- Dusanic, D. G.: Serologic and enzymatic investigations of Trichinella spiralis. II. Characterization of larval lactic dehydrogenase. Exper. Parasitol. 21: 288, 1967.
- Mathot, C. and Dusanic, D. G.: Immunoelectroadsorption studies on Trichinella spiralis. J. Parasitol. 53: 1288, 1967.
- Dusanic, D. G.: Growth and immunological studies on the culture forms of Trypanosoma lewisi. J. Protozool. 15: 32B, 1968.
- Sanchez, G. and Dusanic, D. G.: Growth of the bloodstream form of Trypanosoma lewisi in vitro. J. Parasitol. 54: 601, 1968.
- Sanchez, G. and Dusanic, D. G.: The effects of pathothenic acid, pantoyltaurine, salicylates, and related compounds on the in vitro growth of Trypanosoma lewisi. Comp. Biochem. Physiol. 27: 647, 1968.

Donald G. Dusanic

- Sanchez, G. and Dusanic, D. G.: Trypanosoma lewisi: Creatin phosphokinase, ornithine carbamyl transferase, ATPase, Pi and Glucose levels in the rat host. *Exper. Parasitol.* 23: 371, 1968.
- Burton, P. R. and Dusanic, D. G.: Fine structure and replication of the kinetoplast of Trypanosoma lewisi. *J. Cell. Biol.* 39: 318, 1969.
- Yasuda, S. and Dusanic, D. G.: Comparative immunological studies on somatic antigens and secretion-excretion products of blood stream and culture forms of Trypanosoma lewisi. I. Protective immunity and the agglutinin response. *J. Infect. Dis.* 119: 562, 1969.
- Dusanic, D. G.: Cultivation of Trypanosoma lewisi in a dialysate medium. I. Amino acid alterations during growth. *Comp. Biochem. Physiol.* 30: 895, 1969.
- Sanchez, G. and Dusanic, D. G.: Respiratory activity of Trypanosoma lewisi during several phases of infection in the rat. *Exper. Parasitol.* 23: 361, 1968.
- Hibbard, J. S. and Dusanic, D. G.: Comparative studies on blood stream and culture forms of Trypanosoma lewisi. I. Oxygen utilization, carbon dioxide production, and glucose uptake. *Comp. Biochem. Physiol.* 29: 621, 1969.
- Hibbard, J. S. and Dusanic, D. G.: Comparative studies on blood stream and culture forms of Trypanosoma lewisi. II. Biochemical composition. *Comp. Biochem. Physiol.* 32: 529, 1970.
- Yasuda, S. and Dusanic, D. G.: Serologic characterization of the somatic antigens of forms of Trypanosoma lewisi from the bloodstream and cultures. *J. Infect. Dis.* 123: 544-547, 1971.
- Keilman, G. and Dusanic, D. G.: Carnitine acetyltransferase activity in Trypanosoma lewisi. *Comp. Biochem. Physiol.* 39B: 425-433, 1971.
- Manjra, A. R. A. and Dusanic, D. G.: Mechanisms of amino acid transport in Trypanosoma lewisi. *Comp. Biochem. Physiol.* 41A: 897-903, 1971.
- Manjra, A. R. A. and Dusanic, D. G.: Nucleoside transport in Trypanosoma lewisi. *Comp. Biochem. Physiol.* 44B: 487, 1972.
- Dusanic, D. G. and Chiu, J. K.: Proteins and dehydrogenase isozymes of Oncomelania. *Chinese J. Microbiol.* 4: 232-236, 1971.
- Shaw, G. L. and Dusanic, D. G.: Termination of pregnancy in the rat following infection by Trypanosoma lewisi. *Exper. Parasitol.* 33: 46, 1973.
- Dusanic, D. G.: The effects of homologous and heterologous ablastic antisera on the *in vitro* growth of Trypanosoma musculi. *J. Protozool.* 21: 43, 1974.
- Soria, C. and Dusanic, D. G.: Comparative studies on Trypanosoma dionisii and Trypanosoma vespertilionis. *J. Protozool.* 22: 509, 1975.

Donald G. Dusanic

Dusanic, D. G.: Trypanosoma musculi infections in complement deficient mice. *Exper. Parasitol.* 37: 205, 1975.

Dusanic, D. G.: Immunosuppression and ablastin. *Exper. Parasitol.*, special issue, 1975, in press.

Cherian, P. V. and Dusanic, D. G.: Studies on the surface antigens of trypanosomes. I. Electron microscopic localization on Trypanosoma lewisi with direct and indirect ferritin label techniques. *J. Protozool.* (submitted).



SHIH CHU HSU, M.D., M.P.H.
Consultant
Microbiology Department

PLACE AND DATE OF BIRTH:
Fenghua hsien, Chekiang Province,
R.O.C. - 5 May 1906

EDUCATION BACKGROUND:
Medical College, Cheeloo University
(M.D.) 1933
School of Public Health & Hygiene,
Johns Hopkins University
(M.P.H.) 1938

PROFESSIONAL POSITIONS:

1939-1946 Technical Expert, National Health Admins. detailed to head the
Malaria Research Institute financed by the Rockefeller Foundation.
1948-1973 Chief, Rural Health Division, Joint Commission on Rural Reconstruction.
1973-present Consultant, Joint Commission on Rural Reconstruction.
1974-present Consultant, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

China Medical Association and Taiwan Medical Association
China Environmental Sanitation Association
Chinese School Health Association
Chinese Public Health Association
Population Policy Committee, MOI

FIELDS OF INTEREST

Immunology and allergy research

PUBLICATIONS:

Hsu, S. C., Sweet, W. C., and Balfour, M. C.: Malaria in Chinese and Shans in
Chofang, Yunan-Burma Border. Chinese Med. J. 167(1), 1949.

Hsu, S. C.: Longevity of a hyrocanus var sinensis. Chinese Med. J. 67(1), 1949.

Hsu, S. C.: Malaria Control Program in Taiwan. Chinese-American Economic
Cooperation 1(7), 1952.

Hsu, S. C.: Tuberculosis Control Program in Taiwan. Chinese-American Economic
Cooperation 1(8), 1952.

Shih Chu Hsu

- Hsu, S. C.: Rural Health in Taiwan. SACTA Review 4: 35-42, 1959.
- Hsu, S. C.: The People Build Health Stations. International Journal of Health Education, Vol. VI, 1963.
- Hsu, S. C.: A Report on the Development of Family Planning Program in Taiwan. Eugenics Quarterly 10(3), 1963.
- Hsu, S. C.: Report on Rural Health Program in Taiwan. Taiwan Public Health Journal, 2(1), 1963.
- Hsu, S. C.: Report on the Nutrition Program in Taiwan. Chinese Medical Journal, 11: 71-94, 1964.
- Chow, L. P., Hsu, S. C., and Hsu, T. C.: The Future Population of Taiwan Projected by Three Fertility Assumptions. J. Formosan Med. Assoc. 64: 561-586, 1965.
- Hsu, S. C.: Family Planning Health Program in Taiwan Development, Organization and Accomplishments. Chinese Med. J. 12, Nov. 1965.
- Hsu, S. C.: Problems of Personnel in Organizing and Administering Family Planning Program. Family Planning and Population Programs - A Review of World Development, The University of Chicago Press, pp. 335-345, 1965.
- Hsu, S. C.: Fertility Problems. Industry of Free China, 25(1), 1966 (In Chinese).
- Sun, T. C., Chang, Y. S., and Hsu, S. C.: Epidemiology and Control of Plague on Kinmen. Chinese Medical J. 13: 153-160, 1966.
- Hsu, S. C.: Promotion and Progress of Family Planning Action Program in Taiwan - An Example of Non-Government Approach. Presentation to Congress Symposium No. 1, The 11th Pacific Science Congress, Aug. 1966.
- Hsu, S. C.: Progress of the Family planning Action Program in Taiwan - Use of IUD's and Their Problem. Presentation to Section VIII, the 11th Pacific Science Congress, Aug. 1966.
- Hsu, S. C.: Progress of Family Planning Action Program in Taiwan. for Summer Summer Seminar in Population Planning Center for Population Planning. The University of Michigan, June-July, 1966.
- Hsu, S. C. and Chang, K. K.: Teaching of Fertility Regulation in Medical Schools in Taiwan. Chinese Med. J. 13: 319-325, 1966.
- Hsu, S. C.: Broader Medico-health Concepts, Programmes in Developing Countries and Regional Co-operation. New Zealand Medical Journal 66: 213-219, 1967.
- Hsu, S. C.: Summary Report of Present Status of Family Planning Programs in East Asia. Chinese Med. J. 15(2), June 1968.

Shih Chu Hsu

- Li, K. T. and Hsu, S. C.: Effect of Population Pressure on Economic Development and Some Solutions. Industry of Free China, June 1968.
- Hsu, S. C.: Community Development in China (Taiwan). United Nations Document SA/CD/ExIn-2, Bangkok, Thailand, May 1968.
- Hsu, S. C.: Taiwan's Population Characteristics and Dynamics. J. Formosan Med. Assoc. 69(9), Sept. 1970.
- Hsu, S. C.: From Taboo to National Policy - The Taiwan Family Planning Program Up to 1970. Published by the Chinese Center for International Training in Family Planning, ROC, 1971.
- Hsu, S. C.: Public Health Ethics. Central Monthly 3(10), Aug. 1971 (In Chinese).
- Hsu, S. C.: Observations on the Government Free Medical Care Program for Workers and Public Employees and the Hospitals Operating Under the Program. Public Functionaries Monthly, Vol. 12, No. 11 & 12, Aug. 1971. (Translated into Chinese).
- Hsu, S. C.: Nutrition in Taiwan, the Republic of China - Progress, Problems, and Planning. World Review of Nutrition and Dietetics, Karger, Basel, Switzerland, 1973.
- Hsu, S. C.: Possible Improvement in Quality of Human Progency by Maternal Dietary Intervention: Implications for Programs of Family Planning and Food Production. Nutrition Reports International, Vol. 7, No. 5, May 1973.
- Hsu, S. C.: An Inventory of Infrastructure at County and Township Levels. Agriculture's Place in the Strategy of Development: - The Taiwan Experience, The Joint Commission on Rural Reconstruction, pp. 143-149, July 1974.
- Hsu, S. C.: Some Questions on Taiwan Medical (health) Problems. Nan Shien Vol. 11, No. 1, Oct. 1974. (In Chinese).
- Blackwell, R. Q., Chow, B. F., Chinn, K. S. K., Blackwell Boon-Nam, and Hsu, S. C.: Prospective Maternal Nutrition Study in Taiwan: Rationale, Study Design, Feasibility, and Preliminary Findings. Nutrition Reports International 7(5): 517-532, 1973.



FRED YUN FEI HWANG, M.D.
Consultant
Biochemistry Department

PLACE AND DATE OF BIRTH:
Chekiang, China - 24 February 1928

EDUCATIONAL BACKGROUND:
National Defense Medical Center
(M.D.) 1953

PROFESSIONAL POSITIONS:

1953-1954	Internship, First Army General Hospital, Taipei, Taiwan.
1954-1958	Resident, Department of Medicine, First Army General Hospital, Taipei, Taiwan.
1958-1962	Instructor, Department of Medicine, National Defense Medical Center, Taipei, Taiwan.
1958-1962	Attending physician, Division of Hematology, First Army General Hospital, Taipei, Taiwan.
1962-1964	Research fellow, Division of Hematology, Department of Medicine, Washington University, St. Louis, Missouri.
1964-1966	Assistant Professor of Medicine, Department of Medicine, National Defense Medical Center, Taipei, Taiwan.
1964-1966	Attending physician, Division of Hematology, Veterans General Hospital, Shih-pa, Taiwan.
1964-present	Investigator in Hematology, Veterans General Hospital, Shih-pa, Taiwan.
1966-1968	Associate Professor of Medicine, Department of Medicine, National Defense Medical Center, Taipei, Taiwan.
1966-1968	Research investigator, Department of Medical Research, Veterans General hospital, Shih-pa, Taiwan.
1967-present	Chief, Division of Hematology, Tri-service General Hospital, Taipei, Taiwan.
1968-1970	Research fellow, Division of Hematology, Department of Medicine, University of Iowa, Iowa City, Iowa.
1970-1974	Consultant, Clinical Investigation Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1973-present	Professor of Medicine, Department of Medicine, National Defense Medical Center, Taipei, Taiwan.
1974-present	Consultant, Biochemistry Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

Fred Yun Fei Hwang

PROFESSIONAL SOCIETIES:

International Society of Hematology

FIELDS OF INTEREST:

Hematology

PUBLICATIONS:

Hwang, Y. F. and Brown, E. B.: Evaluation of Deferoxamine in Iron Overload.
Arch. Int. Med. 114: 741-753, 1964.

Hwang, Y. F. and Brown, E. B.: The Effect of Desferroxamine on Iron Absorption.
Lancet 1: 135-137, 1965.

Brown, E. B. and Hwang, Y. F.: Absorption of Hemoglobin Iron. Clin. Research
14: 312, 1966.

Brown, E. B. and Hwang, Y. F.: Studies of the Site of Action of Deferoxamine.
J. Lab. Clin. Med. 69: 382-404, 1967.

Brown, E. B. and Hwang, Y. F.: Absorption of Radioiron labeled Hemoglobin by
Dogs. J. Lab. Clin. Med. 72: 58-64, 1968.

Hwang, Y. F., et al.: Vinblastine induced thrombocytosis. Lancet II: 1075-1076, 1969.

Hwang, Y. F.: Laparatomy and Splenectomy in the Staging of Malignant Lymphomas.
Seminars on Hematology, Hemat. Soc. of Rep. of China. pp. 17-29, 1972.

Hwang, Y. F.: Hemoglobin H Disease: Study of 32 cases in Chinese. Trans. Hemat.
Soc. of Rep. of China. pp. 9-19, 1974.

Hwang, Y. F., Strickland, G. T., Chang, N. K., and Beckner, W. M.: Chronic
Industrial Exposure to Lead in 63 Subjects. I. Clinical and Erythrokinetic
Findings. (Submitted)

Strickland, G. T., Hwang, Y. F., and Blackwell, R. Q.: Chronic Industiral Exposure
to Lead in 63 Subjects. II. Evaluation of Chelation Therapy. (Submitted)



GEORGE CHIN YUN LEE
Consultant
Epidemiology and Clinical
Investigation Department

PLACE AND DATE OF BIRTH:
Kaohsiung, Taiwan - 24 January 1928

EDUCATIONAL BACKGROUND:
National Taiwan University
College of Medicine (M.B.) 1953
University of Washington,
Seattle, Washington (M.S.) 1964

PROFESSIONAL POSITIONS:

1954-1958	Resident and Chief Resident, Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan.
1958-1960	Research Fellow, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1960-1961	Visiting Staff, Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan.
1961-1965	Instructor, National Taiwan University College of Medicine, Taipei, Taiwan.
1962-1964	Senior Fellow, University of Washington, Seattle, Washington (International Post-doctoral Fellow, U.S.P.H.S.).
1965-present	Associate Professor, National Taiwan University College of Medicine Taipei, Taiwan.
1969-1970	Visiting Associate Professor, University of Washington, Seattle, Washington.
1966-1973	Guest Investigator, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1973-present	Consultant, Epidemiology and Clinical Investigation Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1973-present	Professor, National Taiwan University College of Medicine, Taipei, Taiwan.



CHIA CHIN LIN, M.D., D.P.H., M.S.
Guest Scientist
Microbiology Department

PLACE AND DATE OF BIRTH:

Hsinchu County, Taiwan -
29 September 1925

EDUCATIONAL BACKGROUND:

Taihoku Imperial University	
College Certificate	1944
National Taiwan University (M.B.)	1948
Sydney University, Australia	
(D.P.H.)	1956
WHO Fellow to Sydney	
D.P.H. Course	1957
CMB Fellow to U.S.A. Study trip	1959
Chiba University, Japan (M.Sc.D.)	1961
WHO Fellow to Manila Conference	
on Vital Statistics	1961
WHO Fellow to Manila Conference	
on Health Services	1965
NIH Fellow to Seattle M.S. Course	1969
University of Washington (M.S.)	1969

PROFESSIONAL POSITIONS:

1948-present	Teaching Assistant, Lecturer, Associate Professor, Professor in Public Health, Institute of Public Health, National Taiwan University College of Medicine, Taipei, Taiwan.
1957-present	Senior Technical Expert, National Taiwan University Hospital.
1959-1965	Assistant Director, Taipei Public Health Teaching and Demonstration Center, Taipei, Taiwan.
1966	Special Assistant to Dean, NTU/COM.
1966-1971	Senior Technical Expert, Ministry of Interior, ROC.
1969-1974	Computer Scientist/Biostatistician, Data Processing Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1972-present	Member, National Health Survey Committee.
1974-present	Guest Scientist, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1975-present	Director, Institute of Public Health, National Taiwan University College of Medicine, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Formosan Medical Association
American Public Health Association
Chinese Public Health Association
The Society of American Military Engineers

PUBLICATIONS:

Lin, C. C.: Vital Capacity and Chest Volume Index of Coal-mine Workers in Taiwan.
J. Formosan Med. Assoc. 54: 63-65, 1955.

Lin, C. C.: Studies on the Kaschin-Beck's Disease in Taiwan. J. Japan Pathological
Assoc. 48: 817-828, 1959.

Lin, C. C. and Hung, Y. C.: Dental conditions among school children of a primary
school in Taipei City. J. Formosan Med. Assoc. 61: 733-742, 1962.

Chia Chin Lin

- Lin, C. C. and Wu, C. H.: Observation of the body-temperature of school-children. J. Formosan Med. Assoc. 53: 877, 1954.
- Lin, C. C., Chen, K. P., et al.: Pilot project on endemic goiter prevention with iodized salt in Hsinchu, Taiwan, China. J. Formosan Med. Assoc. 1964.
- Lin, C. C. and Emanuel, I.: A comparison of American and Chinese Intrauterine Growth Standards. Are American Babies really smaller? Am. J. Epidemiol. 95: 418-430, 1972.
- Ko, Y. C. and Lin, C. C.: Study of Vital Capacity and Blood Pressure Before and After Coal Mine Works and Influence of Vitamin B₁ on Them. J. Formosan Med. Assoc. 49: 291, 1950.
- Ko, Y. C. and Lin, C. C.: Studies on Insensible Perspiration: Report 1-9. J. Formosan Med. Assoc. 49: 252, 291, 484; 50: 111-112, 116; 51: 91, 334, 1950-1952.
- Ko, Y. C. and Lin, C. C.: Observations on Physiological Changes caused by Endemic Goiter (1) Body Temperature of School Children. J. Formosan Med. Assoc. 53: 876, 1954.
- Tung, T. C. and Lin, C. C., et al.: Nutritional Survey of the 6th Grade School Children in Taiwan. J. Formosan Med. Assoc. 53: 862, 1954.
- Chen, K. P. and Lin, C. C., et al.: Studies on the Health of Inhabitants in Salt-pad Workers and Fishers in Taiwan Prefecture (II) Physical Strength and Body Structure. J. Formosan Med. Assoc. 55: 80, 1956.
- Hsieh, Y. H. and Lin, C. C.: Observations on Endemic Goiter Among High School Students in Hsin-chu Prefecture, Taiwan. J. Formosan Med. Assoc. 56: 585, 1957.
- Chen, K. P. and Lin, C. C., et al.: Observations on thyroid enlargement of school children in Taipei City. J. Formosan Med. Assoc. 56: 586, 1957.
- Chen, K. P. and Lin, C. C., et al.: Observations on Endemic Goiter among Primary School Children in Nan-tou Prefecture, Taiwan. J. Formosan Med. Assoc. 56: 587, 1957.
- Chen, K. P. and Lin, C. C.: Study in Vital Statistics of a Pai-wan Tribe Aborigines in Taitung Prefecture, Taiwan. J. Formosan Med. Assoc. 56: 587, 1957.
- Chen, K. P. and Lin, C. C.: Physical Strength of Pai-wan Tribe Adults in Taitung Prefecture. J. Formosan Med. Assoc. 57: 835, 1957.
- Emanuel, I., Huang, S. W., Gutman, L. T., Yu, F. C., and Lin, C. C.: The Incidence of Congenital Malformations in a Chinese Population: The Taipei Collaborative Study. Teratology 5: 159-170, 1972.
- Chen, K. P. and Lin, C. C., et al.: A Study on the Distribution of Endemic Goiter of School Children in Taiwan. Memoirs of the College of Medicine of National Taiwan University, 17: 61-72, 1972.

Chia Chin Lin

- Lin, T. M. and Lin, C. C., et al.: Retrospective study on Nasopharyngeal Carcinoma. J. Natl. Cancer Inst. 51: 1403-1408, 1973.
- Lin, T. M. and Lin, C. C., et al.: Seroepidemiologic studies on Carcinoma of the Nasopharynx. Cancer 33: 2603-2608, 1973.
- Hsu, C. C., See, R., and Lin, C. C.: Assessment of learning potential of Chinese children with Raven's standard progressive matrices. J. Formosan Med. Assoc. 72: 658-670, 1973.
- Chen, K. P. and Lin, C. C., et al.: Present situation of distribution of practicing physicians in Taiwan. Chinese M. J. 21: 95-108, 1974.
- Hsu, C. C., See, R., and Lin, C. C.: A six-year longitudinal study of Chinese children's responses to Raven's progressive matrices. J. Formosan Med. Assoc. 73: 451-460, 1974.



CHIN TSONG LO, Ph.D.
Guest Scientist
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Hualien, Taiwan - 29 September 1932

EDUCATIONAL BACKGROUND:
National Taiwan University (B.S.) 1956
University of Michigan (M.S.) 1964
University of Michigan (Ph.D.) 1968

PROFESSIONAL POSITIONS:

1957	Research Assistant, Department of Animal Husbandry and Veterinary Medicine, National Taiwan University.
1957-1962	Medical Technician, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1962-1968	Trainee, National Institutes of Health Training Grant, at the University of Michigan.
1964	Teaching Fellow, University of Michigan.
1968-1969	Consultant, World Health Organization, in Laos.
1968-1969	Research Associate, Museum of Zoology, University of Michigan.
1969-1971	Malacologist, Institute of Pathobiology, Haile Selassie I University, Ethiopia.
1971-present	Associate Professor, Department of Parasitology, College of Medicine, National Taiwan University.
1971-1974	Consultant, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1974-present	Guest Scientist, Medical Ecology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

American Malacological Union
Institute of Malacology
Chinese Society of Microbiology
Malacological Society of China
Formosan Medical Association

FIELDS OF INTEREST:

Malacology; Parasitology (trematodes); Invertebrate zoology (Systematics, life histories, snail susceptibility to trematode infection, host-parasite relations, snail control etc.)

Chin Tsong Lo

PUBLICATIONS:

- Lo, C. T.: Raising of Segmentina hemisphaerula (Benson) for the study of fasciolopsiasis. Amer. Malacol. Union Ann. Reps. 33: 34-35, 1966.
- Kuntz, R. E. and Lo, C. T.: Preliminary studies on Fasciolopsis buski (Lank., 1857) (giant Asian Intestinal fluke) in the United States. Trans. Amer. Micr. Soc. 86: 163-166, 1967.
- Lo, C. T.: Life history of the snail, Segmentina hemisphaerula (Benson) and its experimental infection with Fasciolopsis buski (Lankester). J. Parasit. 53: 735-738, 1967.
- Lo, C. T.: The inhibiting action of ostracods on snail cultures. Trans. Amer. Micr. Soc. 86: 402-405, 1967.
- Lo, C. T.: Polyembryony in bulinine snails. Amer. Malacol. Union Ann. Reps. 34: 34-35, 1967.
- Lo, C. T.: Chromosomes of Fasciolopsis buski (Trematoda: Fasciolidae). Bull. Inst. Zool. Academia Sinica 8: 1-5, 1969.
- Lo, C. T., Burch, J. B., and Schutte, C. H. J.: Infection of diploid Bulinus s.s. with Schistosoma haematobium. Malacol. Rev. 3: 121-126, 1970.
- Lo, C. T.: Experimental exposure of Bulinus spp. to miracidia of Schistosoma haematobium from Ethiopia. In: Symposium on Schistosomiasis. Org. Afr. Unity, Health Bureau Pub. No. 1: 75-81, 1970.
- Lo, C. T.: Snail intermediate host of Schistosoma haematobium in Ethiopia. Ibid: 85-88, 1970.
- Lo, C. T.: Some abnormal tentacles and eyes of Pachydrobia pellucida Bavay, 1895 (Gastropoda: Hydrobiidae). Venus 28: 186-188, 1970.
- Iijima, T., Lo, C. T., and Ito, Y.: Studies on schistosomiasis in the Mekong Basin. I. Morphological observation of the schistosomes and detection of their reservoir hosts. Jap. J. Parasit. 20: 24-33, 1971.
- Lo, C. T.: Schistosomiasis in Ethiopia. J. Formosan Med. Assoc. 70: 638, 1971. (In Chinese)
- Lo, C. T., Berry, E. G., and Iijima, T.: Studies on schistosomiasis in the Mekong Basin. II. Malacological investigations on human Schistosoma from Laos. Chinese J. Microbiol. 4: 168-181, 1971.
- Lo, C. T.: The present status of human schistosomiasis in the Mekong Basin. Chinese J. Microbiol. 5: 95-96, 1972. (Abstract)
- Lo, C. T.: Compatibility and host-parasite relationships between species of the genus Bulinus (Basommatophora: Planorbidae) and an Egyptian strain of Schistosoma haematobium (Trematoda: Digenea). Malacologia 11: 225-280, 1972.

Chin Tsong Lo

- Lo, C. T.: Experimental second intermediate hosts of Echinostoma malayanum Leiper, 1911. J. Parasit. 59: 746-747, 1973.
- Lo, C. T. and Chen, C. P.: Studies on Leucochloridium passeri Wu from Taiwan (Digenea: Leucochloridiidae). Bull. Inst. Zool., Academia Sinica 12: 71-73, 1973.
- Iijima, T., Garcia, R. G., and Lo, C. T.: Studies on schistosomiasis in the Mekong Basin. III. Prevalence of Schistosoma infection among the inhabitants. Jap. J. Parasit. 22: 338-346, 1973.
- Chen, S. N., Lo, C. T., Lee, S. Y., and Liu, K. H.: Angiostrongylus cantonensis infection in Achatina fulica from Taiwan. Chinese J. Microbiol. 7: 62-63, 1974.
- Lo, C. T., and Cross, J. H.: In vitro cultivation of Fasciolopsis buski. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 252-257, 1974.
- Lo, C. T.: Flukes of medical and veterinary importance in Taiwan, and their snail hosts. Bull. Malacol. Soc. China 1: 93-103, 1974. (Chinese text with English summary)
- Lane, C. T. and Lo, C. T.: A study on pearl culturing in freshwater mussels. Ibid, 1: 86-90, 1974. (Chinese text with English summary)
- Lo, C. T., Flemings, M. B., and Lemma, A.: Schistosomiasis in Harar, Alemaya and the Damota Valley, Ethiopia. Eth. Med. J. 11: 271-278, 1973.
- Jaw, C. Y. and Lo, C. T.: In vitro cultivation of Echinostoma malayanum Leiper, 1911. Chinese J. Microbiol. 7: 157-164, 1974.
- Lo, C. T. and Lemma, A.: Studies on Schistosoma bovis in Ethiopia. Am. Trop. Med. Parasit. 69: 375-382, 1975.
- Lo, C. T. and Cross, J. H.: Experimental second intermediate hosts for Echinostoma revolutum. Chinese J. Microbiol. 8: 192-194, 1975.
- Lo, C. T. and Chang, K. M.: Chromosome numbers of some clausiliid snails from Taiwan. Bull. Malacol. Soc. China 2: 95-101, 1975.



WOLF SZMUNNESS, M. D., Dr. Sci.
BuMed Consultant
Epidemiology and Clinical Investigation
Department

PLACE AND DATE OF BIRTH:
Warsaw, Poland - 12 March 1919

EDUCATIONAL BACKGROUND:
Institute of Medicine, Tomsk, USSR
Diploma as Physician 1950
Diploma as Candidate Medical
Science (Dr. Phil), Kharkov,
Medical Institute, USSR 1955
Academy of Medicine, Lublin, Poland
Epidemiology and Microbiology
(Dr. Medical Science) 1964

PROFESSIONAL POSITIONS:

1951-1955	City and Provincial Epidemiologist, Kiev-Voroshilovgrad, USSR.
1955-1959	Chief, Department of Epidemiology, Odessa State Institute for Postgraduate Training of Physicians, Zaporozhe, USSR.
1959-1963	Chief, State Institute of Rural Medicine and Hygiene, Department of Epidemiology, Lublin, Poland.
1963-1968	Chief, Infectious Diseases Control Department, Provincial Department of Public Health Service, Lublin, Poland.
1964-1968	Associate Professor of Epidemiology, Academy of Medicine, Lublin, Poland.
1968-1969	Research Grant, Microbiological Laboratories, Instituto Superiore di Sanita, Rome, Italy.
1969-1970	Research Associate, Laboratory of Virology, The New York Blood Center.
1970	Associate Investigator, Laboratory of Virology, The New York Blood Center.
1973	Assistant Professor of Epidemiology, Columbia University School of Public Health.
1973-present	Head of Laboratory of Epidemiology, The New York Blood Center
1974-present	Consultant, Epidemiology and Clinical Investigation Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

American Public Health Association
Society for Epidemiologic Research

PUBLICATIONS:

Szmunness, W.: Investigations on the epidemiology of dysentery in a big city.
Doctoral dissertation. Kharkov. 1954. (in Russian).

Wolf Szmuness

- Szmuness, W.: Observations on the epidemiology of sonnei dysentery. Zh. Microb. 7: 81, 1954. (in Russian).
- Szmuness, W. and Szapowalova, N.: Our experience in the control of dysentery. Wrach. Dielo. 3: 322, 1954. (in Russian).
- Szmuness, W. and Maksiukov, F.: Brucellosis (a textbook for students and physicians). Edit. Kusbas, Kiemerovo. 1955. (in Russian).
- Szmuness, W.: Some materials concerning the epidemiology of chronic dysentery. In Salmonellosis and Shigellosis. Edit. Medghiz. Kiev. 1955. (in Russian).
- Szmuness, W.: Concerning the route of transmission of infectious hepatitis. Zh. Microb. 5: 110, 1957. (in Russian).
- Szmuness, W.: Materials concerning the epidemiology of typhus fever. In Rickettsiae and Rickettsiosis. Edit. Gosmedizdat. Moscow. 1958. (in Russian).
- Szmuness, W. and Rot, N.: Some new materials concerning the epidemiology of infectious hepatitis (Botkin disease). Zh. Microb. 4: 15, 1958. (in Russian).
- Szmuness, W.: A water-borne epidemic of dysentery. Zh. Microb. 5: 83, 1958. (in Russian).
- Szmuness, W.: Investigations on the use of penicillin in milk-industry. Tr. Zaporosk. Inst. Usowersenst. Wracey, v. 1. 1958. (in Russian).
- Szmuness, W.: Some regularities in seasonal rises of epidemic hepatitis. Voprosy Virusol. 6: 714, 1959. (in Russian).
- Szmuness, W.: Changeability of microbial fauna among infants with chronic dysentery. Zh. Microb. 6: 81, 1960. (in Russian).
- Szmuness, W.: The occurrence and some characteristics of inoculated hepatitis. Pol. Tyg. Lek. 42: 613, 1960. (in Polish).
- Parnas, J., Szmuness, W., and Lazvgak, K.: Ornithosis (bird-disease) -- a new occupational disease in breeding. Medycyna Pracy. 6: 411, 1960. (in Polish).
- Szmuness, W.: Ergebnisse der eigenen beobachtungen uber atiologie und epidemiology der chronischen ruhr. Ztschr. ges. Hyg. Grenzgeb. 4: 237, 1960. (in German).
- Szmuness, W. and Parnas, J.: Aspects particuliere de la brucellose humaine en Pologne. Arch. Inst. Pasteur de Tunis. 37: 457, 1960. (in French).
- Szmuness, W.: Epidemiologie der ruhr des sonnei-typs. Ztschr. ges. Hyg. Grenzgeb. 6: 465, 1961. (in German).
- Parnas, J., Szmuness, W., and Cymerman, H.: Untersuchugergebnisse uber ornithose. Ztrbl. Bakter. Orig. I Abt. 183: 141, 1961. (in German).

Wolf Szmuness

- Szmuness, W.: Analysis of intrafamilial cross-infections in instances of epidemic hepatitis (preliminary communication). *Zh. Microb.* 2: 38, 1961. (in Russian).
- Szmuness, W.: Epidemiology of infectious hepatitis (Botkin disease) in rural regions. *Zh. Microb.* 6: 14, 1961. (in Russian).
- Parnas, J. and Szmuness, W.: Ornithosis. Case report. *Pol. Tyg. Lek.* 16: 17, 1961. (in Polish).
- Szmuness, W., et al.: Some results in our investigations concerning the occupational zoonosis in Poland. *Bull. Inst. Rur. Med. Hyg.* v. X, 1961. (in Polish).
- Parnas, J., Szmuness, W., et al.: Complex investigations on tuberculosis in men and animals in the rural areas. *Gruzl. Chor. Pluc. Supl.*, 1961. (in Polish).
- Szmuness, W. and Gawronowa, H.: Preliminary investigations on the epidemiology of infectious hepatitis in the Lublin District (1955-59). *Przegl. Lek.* 17: 389, 1962. (in Polish).
- Szmuness, W., et al.: A water-borne epidemic of dysentery and diarrhea. *Przegl. Epidem.* 4: 473, 1962. (in Polish).
- Szmuness, W.: Über die morbidität der ärzte und ihrer familien an hepatitis epidemica. *Dtsch. ges. Wes.* 25: 1049, 1962. (in German).
- Szmuness, W.: Analyse einer hepatitis-epidemica epidemie in landlichen Gebiet. *Ztschr. ges. Hyg. Grenzgeb.* 3: 228, 1962. (in German).
- Szmuness, W.: Über die familienerkrankungen bei der hepatitis epidemica. *Arch. Hyg. Bakter.* 146: 3, 221, 1962. (in German).
- Szmuness, W.: Die epidemie der hepatitis epidemica in den volksschulen. *Ztrbl. Bakter. Orig. I Abt.* 187: 436, 1962. (in German).
- Parnas, J. and Szmuness, W.: Forschungen über krankheiten der antropozoonosen im bieszczady gebiet. *Arch. Exper. Veterinari* 16: 6, 1097, 1962. (in German).
- Szmuness, W.: Analysis of an epidemic of infectious hepatitis in rural areas. *Epid. Rev.* 1: 518, 1962. (in English).
- Szmuness, W.: Remarks concerning the incidence and epidemiology of epidemic hepatitis in city and rural schools. *Epid. Rev.* 2: 538, 1962. (in English).
- Szmuness, W.: Selected problems from the epidemiology and prophylaxis of infectious hepatitis with particular consideration of rural environment. Monography. Edit. WSSE. Lublin. Dissertation for "Habilitation Docent", 1963. (in Polish).
- Szmuness, W.: Die epidemiologischen eigenschaften der hepatitis epidemica in landlichen Gebieten. *Arch. Hyg. Bakter.* 147: 6, 410, 1963. (in German).

Wolf Szmuness

- Szmuness, W.: Studies on intrafamilial spread of epidemic hepatitis. *Epid. Rev.* 17: 188, 1963. (in English).
- Szmuness, W.: Effectiveness of gamma globulin in prevention of infectious hepatitis. *Pol. Tyg. Lek.* 19: 45, 1964. (in Polish).
- Szmuness, W.: The epidemiology of typhoid fever in Poland. *San.Epid. Bull.* v. 1, 1964. (in Polish).
- Szmuness, W.: Observations on the epidemiologic effectiveness of quarantining children from contact with cases of epidemic hepatitis. *Epid. Rev.* 18: 266, 1964. (in English).
- Szmuness, W.: Bevertungsversuch der virksamkeit einzelner bei der bekampfung der hepatitis epidemica angewendeten massnahmen. *Ztrbl. Bakter. Orig. I* Abt. 194: 1612, 1964. (in German).
- Szmuness, W.: Evaluation of present knowledge of safety blood and blood products. *Pol. Tyg. Lek.* 20: 32, 1215, 1965. (in Polish).
- Szmuness, W., et al.: Infections hospitaliers par Salmonella enteritidis chez les enfants. *Rev. Hyg. Med. Soc.* 13: 531, 1965. (in French).
- Szmuness, W.: Beobachtungen betreffend die epidemiologie der inoculation-shepatitis. *Ztrschr. ges. Hyg. Grenzgeb.* II, 6, 472, 1965. (in German).
- Kostrzewski, J., and Szmuness, W.: La lutte contre l'hepatitis a virus. In *Symposium European sur l'hepatitis a virus*. WHO. Copenhagen, 1965. (in French).
- Szmuness, W., et al.: On the possibility of spread of Salmonella enteritidis infection by the respiratory route. *Epid. Rev.* 19: 164, 1965. (in English).
- Szmuness, W.: Some problems of the epidemiology of infectious hepatitis. *Pol. Tyg. Lek.* 20: 1215, 1965. (in Polish).
- Szmuness, W.: Characteristic einer inoculations-hepatitis-epidemie. *Dtsch. ges. Wes.* 21,9,411, 1966. (in German).
- Szmuness, W., et al.: The microbiological and epidemiological properties of infections caused by Salmonella enteritidis. *J. Hyg.* 9: 64, 1966. (in English).
- Szmuness, W., Gawronowa, H., and Horoch, C.: Viral hepatitis in blood recipients-- a retrospective study. *Epid. Rev.* 20: 201, 1966. (in English).
- Szmuness, W., et al.: Studies on the etiology, pathogenesis and epidemiology of Salmonella enteritidis infections among children. In *Pediatric Symposium*. Bialystok, 1967. (in Polish).
- Szmuness, W., et al.: Preliminary results of investigations on the use of the interdermal gamma globulin test in viral hapatitis. *Polish Med. J.* 5: 3, 581-589, 1967. (in English).

Wolf Szmuness

- Szmuness, W.: Studies on the epidemiologic effectiveness of obligatory hospitalization of viral hepatitis patients. *Epid. Rev.* 21: 233-236, 1968. (in English).
- Tuszkiewicz, A., Szmuness, W., et al.: Preliminary results of long-term studies on epidemiology of myocardial infarction. *Przegl. Epid.* 3: 427-449, 1968. (in Polish).
- Szmuness, W. and Boron, P.: Viral hepatitis: Etiology, Epidemiology and Prophylaxis. Monography. Edit. PZWL. Warsaw, 1969. (in Polish).
- Prince, A. M., Hargrove, R. L., Szmuness, W., et al.: Immunologic distinction between infectious and serum hepatitis. *New Engl. J. Med.* 282: 987-991, 1970.
- Szmuness, W., Pick, R., and Prince, A. M.: Serum hepatitis virus specific antigen: A preliminary report of epidemiologic studies in an institution for the mentally retarded. *Amer. J. Epid.* 92: 51-61, 1970.
- Szczygielska, J., Szmuness, W., and Radomska, K.: Dissemination of the vaccine Poliomyelitis virus in the families of vaccinated children. *Epid. Rev.* 24: 212-221, 1970.
- Szmuness, W. and Prince, A. M.: Epidemiologic patterns of viral hepatitis in Eastern Europe in the light of recent findings concerning the serum hepatitis antigen. *J. Inf. Dis.* 123: 200-212, 1971.
- Prince, A. M., Szmuness, W., et al.: Serum hepatitis virus specific antigen: A status report. *Perspectives in Virology* 7: 241-296, 1971.
- Szmuness, W., Prince, A. M., and Cherubin, Ch.: Serum hepatitis virus specific antigen. Relation to ABO blood groups. *Brit. Med. J.* 2: 198-199, 1971.
- Szmuness, W. and Prince, A. M.: HAA in drug-addicts. *Lancet* 1: 433, 1971.
- Prince, A. M., Szmuness, W., et al.: A serologic study of cytomegalovirus infections associated with blood transfusions. *New Engl. J. Med.* 248: 1125-1131, 1971.
- Prince, A. M., Szmuness, W., et al.: Antibody against SH antigens. *New Engl. J. Med.* 285: 585-595, 1971.
- Szmuness, W. and Prince, A. M.: The epidemiology of serum hepatitis SH infections: A controlled study in two closed institutions. *Amer. J. Epid.* 94: 585-595, 1971.
- Masseyeff, R., Prince, A. M., Leblanc, L., and Szmuness, W.: Detection of HAA in the serum of patients with primary carcinoma of the liver. *Amer. J. Dis. Child.* 123: 412, 1972.
- Prince, A. M., Szmuness, W., et al.: Hepatitis B immune globulin. In *Hepatitis and Blood Transfusion*, Edit. Grune & Stratton. New York. 1972.

Wolf Szmuness

- Szmuness, W., et al.: Development and distribution of hemagglutinating antibody against the hepatitis B antigen in institutionalized populations. *J. Inf. Dis.* 126: 498-506, 1972.
- Szmuness, W., et al.: Hepatitis B antigen and antibody in blood donors. An epidemiologic study. *J. Inf. Dis.* 127: 17-25, 1973.
- Szmuness, W., et al.: The epidemiology of hepatitis B infection in Africa: Results of a pilot survey in the Republic of Senegal. *Amer. J. Epid.* 98: 104-110, 1973.
- Szmuness, W., et al.: Familial clustering of hepatitis B infection. *New Engl. J. Med.* 289: 1162-1166, 1973.
- Szmuness, W. and Cherubin, Ch.: Editorial. The emerging epidemiology of hepatitis B. *Arch. Intern. Med.* 79: 745-746, 1973.
- Szmuness, W.: Pre-exposure prophylaxis of hepatitis A. 9th Intl. Cong. Trop. Med. and Malaria. Athens. Abstr. of Invited Papers. 1973.
- Szmuness, W. and Prince, A. M.: Epidemiologic mechanisms of hepatitis B virus (HBV) transmission. *Ibid.*
- Prince, A. M., Szmuness, W., et al.: Recent advances in our understanding of hepatitis B infections. *Vox Sang. suppl. v.* 24: 8-16, 1973.
- Szmuness, W. and Prince, A. M.: Epidemiologic patterns of hepatitis B as revealed by immunologic surveys. *Proceedings of Society for Epidemiologic Research* 1: 1, 1973.
- Szmuness, W., et al.: Hepatitis B infection: a point-prevalence study in 15 US hemodialysis centers. *J.A.M.A.* 227: 901-906, 1974.
- Szmuness, W., et al.: Hepatitis B immune serum globulin in prevention of nonparenterally transmitted hepatitis B. *New Engl. J. Med.* 290: 701-706, 1974.
- Szmuness, W.: Passive and active immunization against hepatitis B. 12th Intl. Cong. Int. Med. Israel. Abstract of Invited Papers, 1974.
- Szmuness, W.: The epidemiology of asymptomatic hepatitis B infection. 12th Intl. Cong. Int. Med. Israel. Abstract of Invited Papers, 1974.
- Szmuness, W., et al.: Further observations on the occurrence of hepatitis B surface antigen (HBsAg) in blood donors. To appear in *J. Inf. Dis.* Feb., 1975.
- Favero, M. S., Maynard, J. E., Petersen, N. J., Boyer, K. M., Bond, W. W., Berquist, K. R., and Szmuness, W.: Hepatitis-B antigen on environmental surfaces. *Lancet* 2: 1455, 1973.



CHAO SIUNG TSAI, M. D., Dr. Med. Sci.
Consultant
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Taiwan, China - 3 February 1936

EDUCATIONAL BACKGROUND:

National Taiwan University	1954
Kaohsiung Medical College (M.D.)	1962
Special Course in Radiology for Medical Research and Diagnosis National Institute of Medical Radiology, Chiba, Japan	1965
Chiba University, School of Medicine, Chiba, Japan (Dr. Med. Sci.)	1967

PROFESSIONAL POSITIONS:

1961-1962	Internship, MacKay Memorial Hospital, Taipei, Taiwan.
1962-1963	Medical Officer, Chinese Navy.
1963-1967	Research Assistant, Chiba University, School of Medicine, Chiba, Japan.
1967-1969	Visiting Associate Professor, Department of Biomorphics, National Defense Medical Center, Taipei, Taiwan.
1967-1972	Consultant, Department of Medical Ecology, U.S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1972-1973	Intern. St. Vincent Hospital & Medical Center, Toledo, Ohio.
1973-1975	Resident Physician, Department of Medicine, College of Medicine, Dentistry of New Jersey, Newark, New Jersey.
1975-present	Staff, Department of Emergency Medicine, St. Francis Hospital, Port Jervis, New York.
1976-present	Consultant, Department of Medical Ecology, U.S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Royal Society of Tropical Medicine and Hygiene.
American Society of Tropical Medicine and Hygiene.
Japanese Society of Parasitology.
Japanese Society of Internal Medicine.
Chinese Society of Microbiology.

FIELDS OF INTEREST:

Parasites of medical importance; their pathogenesis, immunology and treatment.

Chao Siung Tsai

PUBLICATIONS:

- Yokogawa, H., Koyama, H., Yoshimura, H., and Tsai, C. S.: Chemotherapy of Clonorchis sinensis. I. Chemotherapy with 1.4-bis-trichloromethylbenzol for the experimentally infected animals with Clonorchis sinensis. Jap. J. Parasit. 14: 233-242, 1965.
- Yoshimura, H., Araki, K., and Tsai, C. S.: Physiological study of Clonorchis sinensis. II. On the development of the liver fluke in the rat. Jap. J. Parasit. 14: 437-444, 1965.
- Yoshimura, H. and Tsai, C. S.: Physiological study of Clonorchis sinensis. III. Experimental studies on the infected rats with a single metacercaria of C. sinensis. Jap. J. Parasit. 15: 192-195, 1966.
- Tsai, C. S.: Experimental studies of Clonorchis sinensis in albinorat. Jap. J. Parasit. 15: 246-254, 1966.
- Tsai, C. S.: Experimental investigation on the congenital transmission of toxoplasmosis in mice. J. Formosa Med. Assoc. 67: 530, 1968.
- Tsai, C. S. and Cross, J. H.: Anisakis like larvae in marine fish of Taiwan. Chinese J. Microbiol. 2: 139-142, 1969.
- Tsai, C. S. and Cross, J. H.: Oocysts of Toxoplasma gondii in the feces of an experimentally infected cat. Southeast Asian J. Trop. Med. Pub. Hlth. 1: 556-557, 1970.
- Tsai, C. C., Kundin, W. D., and Tsai, C. S.: Leptospiral antibodies in the Atayal tribe of Central Taiwan. Chinese J. Microbiol. 3: 25-28, 1970.
- Tsai, C. S. and Cross, J. H.: The mass treatment of *Taenia saginata* with Bithinol. Jap. J. Parasit. 20: 177-180, 1971.
- Tsai, C. S. and Cross, J. H.: Serologic observation of human toxoplasmosis on Taiwan. Chinese J. Microbiol. 5: 122-125, 1972.
- Durfee, P. T. and Tsai, C. S.: Intestinal Parasites among Aborigines at Santimen Southern Taiwan. J. Formosan Med. Assoc. 71: 724-726, 1972.
- Tsai, C. S., Julia Chien and Cross, J. H.: Experimental chemotherapy of acute toxoplasmosis in mice with Spiramycine and Acetylspiramycine. Chinese J. Microbiol. 6: 31-36, 1973.
- Durfee, P. T., Sung, H. T., Ma, C. H., Tsai, C. S., and Cross, J. H.: Serologic study of toxoplasmosis in Taiwan. Southeast Asian J. Trop. Med. Pub. Hlth. 6: 170-174, 1975.



CHE CHUNG TSAI, Ph.D.
Guest Scientist
Microbiology Department

PLACE AND DATE OF BIRTH:
Taiwan, China - 31 October 1938

EDUCATIONAL BACKGROUND:

National Taiwan University (B.S.)	1964
National Taiwan University (D.V.M.)	1965
University of California, Davis, California (M.P.V.M.)	1972
University of California, Davis, California (Ph.D.)	1974

PROFESSIONAL POSITIONS:

1965-1968	Medical Research Fellow, Department of Pathology, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1968-1970	Medical Research Investigator, Department of Microbiology, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1971-1972	WHO Fellow, University of California, Davis, California.
1972-1974	Regent Fellow, University of California, California.
1974-present	Associate Professor of Public Health Microbiology and Epidemiology, Institute of Public Health, College of Medicine, National Taiwan University, Taipei, Taiwan.
1974-present	Guest Scientist, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Formosan Medical Association
Chinese Society of Microbiology
American Society of Microbiology

FIELDS OF INTEREST:

Epidemiology and control of foodborne infections and intoxications.
Discovery and control of natural toxicants in the food chain.
Anaerobic bacteria -- Clostridial infections and intoxications.

PUBLICATIONS:

Fresh, J. W., Tsai, C. C., Lai, C. H., and Chang, C. T.: Leptospirosis in man and rodents on Taiwan. Amer. J. Trop. Med. Hyg. 17: 760-768, 1968.

Tsai, C. C. and Fresh, J. W.: Leptospirosis on Orchid Island, Taiwan. Trop. Geograph. Med. 21: 456-461, 1969.

Che Chung Tsai

- Tsai, C. C. and Fresh, J. W.: *Leptospira canicola* isolated from dogs in Taiwan. J. Formosan Med. Assoc. 68: 58-62, 1969.
- Tsai, C. C. Kundin, W. D., and Rauston, G. L.: Leptospirosis in man and animals on Green Island, Taiwan. J. Formosan Med. Assoc. 68: 632-633, 1969.
- Tsai, C. C., Kundin, W. D., and Tsai, C. S.: Leptospiral antibodies in Atayal Tribe of Central Taiwan. Chinese J. Microbiol. 3: 25-28, 1970.
- Tsai, C. C. and Kundin, W. D.: Isolation of *Leptospira javanica* from wild rat and squirrel in Chi-lan mountain, I-lan, Taiwan. Chinese J. Microbiol. 3: 56-57, 1970.
- Kundin, W. D., Carlos, E. R., Tsai, C. C., and Kueczynski, G. A.: *Suncus* as a potential reservoir of leptospirosis: the blaming of the shrew. Southeast Asian J. Trop. Med. Pub. Hlth. 1: 270-274, 1970.
- Carlos, E. R., Kundin, W. D., Tsai, C. C., Irving, G. S., Watten, R. H., and Batungbakal, C.: Leptospirosis in the Philippines. I. Isolation studies, preliminary report. Acta Medica Philippina 6: 149-153, 1970.
- Carlos, E. R., Kundin, W. D., Tsai, C. C., Irving, G. S., Watten, R. H., and Batungbakal, C.: Leptospirosis in the Philippines. II. Serologic studies. Acta Medica Philippina 6: 154-159, 1970.
- Carlos, E. R., Kundin, W. D., Watten, R. H., Tsai, C. C., Irving, G. S., Castillo, L., and Gatmaitan, O.: Leptospirosis in the Philippines. III. Serologic and isolation studies on carabaos. Southeast Asian J. Trop. Med. Pub. Hlth. 1: 481-482, 1970.
- Tsai, C. C., Kundin, W. D., and Fresh, J. W.: The zoonotic importance of the urban rats as a potential reservoir for human leptospirosis. J. Formosan Med. Assoc. 70: 1-4, 1971.
- Tsai, C. C. and Fresh, J. W.: Isolation of leptospirae in the Hebdomadis serogroup and the Pomona serogroup from mongooses in Taiwan. Trop. geogr. Med. 23: 201-203, 1971.
- Fresh, J. W., Tsai, C. C., and Sulianti Saroso, J.: A leptospirosis study in South Sumatra and Bangka Island, Indonesia. Southeast Asian J. Trop. Med. Pub. Hlth. 2: 22-24, 1971.
- Tong, M. J., Rosenberg, E. B., Votteri, B. A., and Tsai, C. C.: Immunological response in leptospirosis: Report of three cases. Amer. J. Trop. Med. Hyg. 20: 625-630, 1971.
- Tsai, C. C. and Kundin, W. D.: Leptospiral serotypes on Taiwan. Chinese J. Microbiol. 4: 84-87, 1971.
- Carlos, E. R., Tsai, C. C., Kundin, W. D., Watten, R. H., Irving, G. S., and Villanueva, C.: Leptospirosis in the Philippines. VII. Serologic and isolation studies on horses. Southeast Asian J. Trop. Med. Pub. Hlth. 2: 151-152, 1971.

Che Chung Tsai

- Tsai, C. C. and Sulzer, C. R.: Four new leptospiral serotypes isolated from human sources in South Vietnam. *Southeast Asian J. Trop. Med. Pub. Hlth.* 2: 313-321, 1971.
- Berman, S. J., Tsai, C. C., Holmes, K., Fresh, J. W., and Watten, R. H.: Sporadic anicteric leptospirosis in South Vietnam: A study in 150 patients. *Annals Internal Med.* 79: 167-173, 1973.
- Tsai, C. C., Torres-Anjel, M. J., and Riemann, H. P.: Improved culture techniques and sporulation medium for enterotoxin production by Clostridium perfringens type A. *J. Formosan Med. Assoc.* 73: 404-409, 1974.
- Tsai, C. C., Torres-Anjel, M. J., and Riemann, H. P.: Characteristics of enterotoxigenic Clostridium perfringens type A strains isolated from cattle and chickens. *J. Formosan Med. Assoc.* 73: 501-510, 1974.
- Tsai, C. C. and Riemann, H. P.: Effect of heat activation on biomorphics, hemolysis, and lecithinase activity of Clostridium perfringens type A. *Chinese J. Microbiol.* 7: 109-113, 1974.
- Tsai, C. C. and Riemann, H. P.: Relation of enterotoxigenic Clostridium perfringens type A to food poisoning. I. Effect of heat activation on the germination, sporulation, and enterotoxigenesis of C. perfringens. *J. Formosan Med. Assoc.* 73: 653-659, 1974.
- Tsai, C. C. and Riemann, H. P.: Relation of enterotoxigenic Clostridium perfringens type A to food poisoning. II. Acid exposure and storage conditions affecting enterotoxigenesis of C. perfringens. *J. Formosan Med. Assoc.* 73: 703-708, 1974.
- Tsai, C. C. and Fresh, J. W.: Serological study of leptospirosis among farmers and farm helpers in Central Taiwan. *Chinese J. Microbiol.* 7: 176-177, 1974.
- Tsai, C. C. and Riemann, H. P.: Food poisoning signs orally induced by Clostridium perfringens type A enterotoxin in mice. *J. Formosan Med. Assoc.* 74: 310-315, 1975.
- Tsai, C. C. and Riemann, H. P.: Oral infection and food poisoning syndrome in mice by enterotoxigenic Clostridium perfringens type A. *J. Formosan Med. Assoc.* 74: (in press), 1975.
- Tsai, C. C. and Fresh, J. W.: Leptospira canalzone in man: A case report. *Southeast Asian J. Trop. Med. Pub. Hlth.* 6:(in press), 1975.



LI TU WANG, M. D.
Consultant
Medical Ecology Department

PLACE AND DATE OF BIRTH:
Taipei, Taiwan - 8 October 1935

EDUCATIONAL BACKGROUND:
National Taiwan University
(M.D.) 1961
Tulane University (MPH & TM) 1969

PROFESSIONAL POSITIONS:

1972-present Visiting Professor, Taipei Medical College, Taipei, Taiwan.
1969-present Consultant, Medical Ecology Department, U. S. Naval Medical Research
Unit No. 2., Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

American Society of Tropical Medicine and Hygiene
Royal Society of Tropical Medicine and Hygiene
Chinese Society of Gastroenterology

FIELDS OF INTEREST:

Tropical Medicine, especially amebiasis

PUBLICATIONS:

- Wang, L. T.: Studies on oxytetracycline resistant amebic dysentery. J. Formosan Med. Assoc. 70: 131-134, 1971.
- Wang, L. T. and Sung, J. L.: Trials of metronidazole in amebic dysentery and amebic liver abscess. J. Formosan Med. Assoc. 70: 405-408, 1971.
- Wang, L. T., Jen, G., and Cross, J. H.: Establishment of Entamoeba histolytica from liver abscess in monoxenic cultures with hemoflagellates. Am. J. Trop. Med. Hyg. 22: 30-32, 1973.
- Wang, L. T.: The clinical significance of the indirect haemagglutination test for amebiasis in Taiwan. J. Formosan Med. Assoc. 72: 619-623, 1973.
- Wang, L. T.: Cultivation of Entamoeba histolytica with bacterial associates - Isolation and maintenance of Taiwan strains. J. Formosan Med. Assoc. 73: 196-202, 1974.

Li Tu Wang

Wang, L. T.: Pleuropulmonary complications of amebiasis in Taiwan. J. Formosan Med. Assoc. 72: 633-640, 1973.

Wang, L. T. and Cross, J. H.: Studies on stability of the hemagglutinating antibody of Entamoeba histolytica. Chinese J. Microbiology 7: 60-61, 1974.

Wang, L. T. and Cross, J. H.: Pathogenicity of five Asian strains of Entamoeba histolytica in laboratory rats. Chinese J. Microbiology 7: 30-35, 1974.

Wang, L. T. and Cross, J. H.: Human sparganosis on Taiwan. J. Formosan Med. Assoc. 73: 173-177, 1974.

Wang, L. T., Jen, G., and Cross, J. H.: Axenic cultivation of four strains of Entamoeba histolytica from liver abscesses. Southeast Asian J. Trop. Med. Pub. Hlth. 5: 365-367, 1974.



CHEN CHUNG YANG, D. Med. Sc.
Consultant
Biochemistry Department

PLACE AND DATE OF BIRTH:
Taipei, Taiwan - 15 July 1927

EDUCATIONAL BACKGROUND:
National Taiwan University,
College of Medicine 1950
Tokyo Jikei University, School
of Medicine (D. Med. Sc.) 1956

PROFESSIONAL POSITIONS:

1950-1955	Research Assistant, Department of Biochemistry National Taiwan University, College of Medicine, Taipei, Taiwan.
1955-1956	Instructor of Biochemistry, Kaohsiung Medical College, Kaohsiung, Taiwan.
1956-1958	Associate Professor of Biochemistry, Kaohsiung Medical College, Kaohsiung, Taiwan.
1958-1973	Professor of Biochemistry, Kaohsiung Medical College, Kaohsiung, Taiwan.
1959-1961	Dean of Studies, Kaohsiung Medical College, Kaohsiung, Taiwan.
1961-1962	Research Associate, Department of Physiological Chemistry, University of Wisconsin, Madison, Wisconsin.
1964-1969	Medical Research Fellow, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1964-present	Concurrent Research Fellow, Institute of Zoology Academia Sinica, Taiwan.
1964-1967	National Research Professor, National Science Council, Taiwan.
1966-1967	Dean of Students, Kaohsiung Medical College, Kaohsiung, Taiwan.
1967-1973	President, Kaohsiung Medical College, Kaohsiung, Taiwan.
1969-1970	Guest Investigator, U.S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1969-present	Member of the Board of Directors of the Chinese Biochemical Society.
1970-present	Member of the Editorial Advisory Board of the International Society on Toxinology.
1970-present	Medical Consultant, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1970-present	Consultant of the Central Committee of the Kuomintang, ROC.
1971-present	Member of the Committee of Inquiry of the Division of Life Sciences in the National Science Council, ROC.
1971-present	Member of the Advisory Board of the Institute of Biochemistry in the Academia Sinica.

Chen Chung Yang

- 1972-present Member of the Committee of Inquiry of the Arts and Sciences in the Ministry of Education, ROC.
1973-present Professor of Biochemistry, National Tsing Hua University, Taiwan.
1973-present Director, Institute of Molecular Biology, National Tsing Hua University, Taiwan.
1973-present Deputy Director of the China Yough Corps.

PROFESSIONAL SOCIETIES:

International Society on Toxinology
American Chemical Society
American Association for the Advancement of Science
Japanese Biochemical Society
Chinese Biochemical Society
Formosan Medical Association

FIELDS OF INTEREST:

Protein Chemistry, Immunochemistry
Biochemical studies on the toxic nature of snake venom; Structure-function relationships and immunochemical studies on cobrotoxin.

PUBLICATIONS:

- Tung, T. C., Lin, K. H., Sung, S. C., Chen, S. C., Yang, C. C., Lin, Y. C., Lai, Y. P., Chen, H. J., and Huang, F. L.: Nutritional status of the Formosan people. I. Blood plasma protein of the students of the Medical College in the National Taiwan University. J. Formosan Med. Assoc. 48: 119-122, 1949.
- Tung, T. C., Lin, K. H., Sung, S. C., Chen, S. C., Yang, C. C., Lin, Y. C., Lai, Y. P., Chen, H. J., and Huang, F. L.: Nutritional status of the Formosan people. II. Condition of plasma ascorbic acid among the students of the Medical College in the National Taiwan University. J. Formosan Med. Assoc. 48: 170-173, 1949.
- Tung, T. C., Lin, K. H., Sung, S. C., Chen, S. C., and Yang, C. C.: Nutritional status of the Formosan. A thiamin saturation test among the medical students of the National Taiwan University. Mem. of the Faculty of Med. National Taiwan Univ. 1: 95-98, 1950.
- Yang, C. C. and Tung, T. C.: Effects of snake venom on succinoxidase system. J. Formosan Med. Assoc. 52: 83-91, 1953.
- Yang, C. C.: Effects of cobra venom on the succinoxidase system. On the mechanism of inhibition. J. Formosan Med. Assoc. 52: 421-434, 1953.
- Yang, C. C., Huang, L. C., and Tung, T. C.: The activities of lecithinase A in cobra venom and crotoxin. J. Formosan Med. Assoc. 53: 1-7, 1954.
- Yang, C. C.: The effects of crotoxin on the succinoxidase system. J. Formosan Med. Assoc. 53: 59-66, 1954.

Chen Chung Yang

- Yang, C. C. and Tung, T. C.: The toxicity of Formosan snake venom on succinate-cytochrome c reductase and its lecithinase A activity. J. Formosan Med. Assoc. 53: 123-127, 1954.
- Yang, C. C. and Tung, T. C.: Cobra venom and the thiol groups of glyceraldehyde-3-phosphate dehydrogenase. J. Formosan Med. Assoc. 53: 209-217, 1954.
- Yang, C. C. and Chang, L. T.: Studies on the phosphatases activities of Formosan snake venoms. J. Formosan Med. Assoc. 53: 609-616, 1954.
- Yang, C. C.: On the mechanism of the inhibition of crystalline glyceraldehyde-3-phosphate dehydrogenase by Formosan snake venoms. J. Formosan Med. Assoc. 57: 29-44, 1958.
- Yang, C. C. and Takemura, S.: Biochemical studies on the Formosan snake venoms. I. On the mechanism of the action of Formosan cobra venom on nucleic acids. J. Formosan Med. Assoc. 57: 349-357, 1958.
- Yang, C. C., Iwanaga, S., and Kawachi, S.: Biochemical studies on the Formosan snake venoms. II. Some observations on the column chromatography of cobra venom. J. Formosan Med. Assoc. 57: 525-533, 1958.
- Yang, C. C.: Biochemical studies on the Formosan snake venoms. III. Electrophoretic patterns of the Formosan cobra and Agkistrodon acutus venoms. J. Formosan Med. Assoc. 57: 567-573, 1958.
- Yang, C. C., Chen, C. J., and Su, C. C.: Biochemical studies on the Formosan snake venoms. IV. The toxicity of Formosan cobra venom and enzyme activities. J. Biochem. 46: 1201-1208, 1959.
- Yang, C. C., Su, C. C., and Chen, C. J.: Biochemical studies on the Formosan snake venoms. V. The toxicity of Hyappoda (Agkistrodon acutus) venom and enzyme activities. J. Biochem. 46: 1209-1215, 1959.
- Yang, C. C. and Chang, C. C.: Biochemical studies on the snake venoms. VI. On the ophio-L-amino acid oxidase activity of Formosan snake venoms. J. Formosan Med. Assoc. 59: 961-971, 1960.
- Yang, C. C., Chiu, W. C., and Kao, K. C.: Biochemical studies on the snake venoms. VII. Isolation of venom cholinesterase by zone electrophoresis. J. Biochem. 48: 706-713, 1960.
- Yang, C. C., Kao, K. C., and Chiu, W. C.: Biochemical studies on the snake venoms. VIII. Electrophoresis studies of Banded krait (Bungarus multicinctus) venom and the relation of toxicity with enzyme activities. J. Biochem. 48: 714-722, 1960.
- Yang, C. C.: The toxicity of snake venom and enzyme activities. J. Formosan Med. Assoc. 59: 1326-1329, 1960.
- Yang, C. C.: Starch-gel electrophoresis study of snake venom. J. Formosan Med. Assoc. 62: 563-567, 1963.

Chen Chung Yang

- Yang, C. C.: Fractionation of snake venom on Sephadex. J. Formosan Med. Assoc. 62: 611-622, 1963.
- Yang, C. C.: Purification of toxic proteins from cobra venom. J. Formosan Med. Assoc. 63: 325-331, 1964.
- Chang, C. C. and Yang, C. C.: Immunochemical studies of snake venom. 1. Paper electrophoretic patterns and precipitin reactions of anti-cobra sera. J. Formosan Med. Assoc. 63: 455-466, 1964.
- Yang, C. C.: Crystallization and properties of cobrotoxin from Formosan cobra venom. J. Biol. Chem. 240: 1616-1618, 1965.
- Yang, C. C.: Enzymic hydrolysis and chemical modification of cobrotoxin. Toxicon 3: 19-23, 1965.
- Yang, C. C.: The disulfide bonds of cobrotoxin and their relationship to lethality. Biochim. Biophys. Acta 133: 346-355, 1967.
- Yang, C. C., Chang, C. C., Hamaguchi, K., Ikeda, K., Hayashi, K., and Suzuki, T.: Optical rotatory dispersion of cobrotoxin. J. Biochem. 61: 272-274, 1967.
- Yang, C. C.: Biochemical studies on the toxic nature of snake venom. Intern. Congr. Biochem. 7th, Tokyo Col. VIII, 1, 1967.
- Yang, C. C., Chang, C. C., and Wei, H. C.: Studies on fluorescent cobrotoxin. Biochim. Biophys. Acta 147: 600-602, 1967.
- Shu, I. C., Ling, K. H., and Yang, C. C.: Study on I¹³¹ labeled cobrotoxin. Toxicon 5: 295-301, 1968.
- Yang, C. C., Chang, C. C., Hayashi, K., Suzuki, T., Ikeda, K., and Hamaguchi, K.: Optical rotatory dispersion and circular dichroism of cobrotoxin. Biochim. Biophys. Acta 168: 373-376, 1968.
- Chang, C. C. and Yang, C. C.: Immunochemical studies on cobrotoxin. J. Immun. 102: 1437-1444, 1969.
- Yang, C. C., Chang, C. C., Hayashi, K., and Suzuki, T.: Amino acid composition and end group analysis of cobrotoxin. Toxicon 7: 43-47, 1969.
- Yang, C. C., Yang, H. J., and Huang, J. S.: The amino acid sequence of cobrotoxin. Biochim. Biophys. Acta 188: 65-77, 1969.
- Yang, C. C.: Biochemical and immunochemical studies on cobrotoxin. The Snake 2: 1-12, 1970.
- Yang, C. C.: Structure-activity relationships and immunochemical studies on cobrotoxin. Radiation Sensitivity of Toxins and Animal Poisons, IAEA-PL-334/6: 63-74, 1970.

Chen Chung Yang

- Yang, C. C., Yang, H. J., and Chiu, R. H. C.: The position of disulfide bonds in cobrotoxin. *Biochim. Biophys. Acta* 214: 355-363, 1970.
- Chang, C. C., Yang, C. C., Hamaguchi, K., Nakai, K., and Hayashi, K.: Studies on the status of tyrosyl residues in cobrotoxin. *Biochim. Biophys. Acta* 236: 164-173, 1971.
- Chang, C. C., Yang, C. C., Kurobe, M., Nakai, K., and Hayashi, K.: The identification of the special glutamic acid residue essential for activity of cobrotoxin. *Biochem. Biophys. Res. Commun.* 43: 429-434, 1971.
- Yang, C. C.: Biochemical studies on the toxic nature of snake venom: Cobretoxin from Formosan cobra venom. *Toxins of Animal and Plant Origin de Vries Kochva, Gordon and Breach, London*, 1: 205-236, 1971.
- Chang, C. C., Yang, C. C., Nakai, K., and Hayashi, K.: Studies on the status of free amino and carboxyl groups in cobrotoxin. *Biochim. Biophys. Acta* 251: 334-344, 1971.
- Wong, C. H., Chang, T. W., Lee, T. J., and Yang, C. C.: X-Ray crystallographic study of cobrotoxin. *J. Biol. Chem.* 247: 608, 1972.
- Aoyagi, H., Yonezawa, H., Takahashi, N., Kato, T., Izumiya, N., and Yang, C. C.: Synthesis of a peptide with cobrotoxin activity. *Biochim. Biophys. Acta* 263: 823-826, 1972.
- Yang, C. C.: Immunochemical studies on cobrotoxin. *J. Formosan Med. Assoc.* 71: 372-380, 1972.
- Huang, J. S., Liu, S. S., Ling, K. H., Chang, C. C., and Yang, C. C.: Photooxidation of cobrotoxin. *J. Formosan Med. Assoc.* 71: 383-388, 1972.
- Yang, C. C. and Chang, C. C.: Chemical modification of cobrotoxin. *J. Chinese Biochem. Soc.* 1: 23-31, 1972.
- Huang, H. S., Liu, S. S., Ling, K. H., Chang, C. C., and Yang, C. C.: Iodination of cobrotoxin. *Toxicon* 11: 39-45, 1973.
- Chang, C. C. and Yang, C. C.: Immunochemical studies on the tryptophan-modified cobrotoxin. *Biochim. Biophys. Acta* 295: 595-604, 1973.
- Sekiya, M., Kikuno, M., Morinobu, S., and Yang, C. C.: Fluorescent probe of the cholinergic effect in the central nervous system. *Intern. Meeting of the Intern. Soc. Neurochem.* 4th, Tokyo, 1973.
- Yang, C. C., Chang, C. C., and Liou, I. F.: Studies on the status of arginine residues in cobrotoxin. *Intern. Congr. Biochem.* 9th, Stockholm Coll. D, 1973.
- Yang, C. C.: Chemistry and evolution of snake neurotoxins. *Toxicon* 12: 1-43, 1974.



CZAU SIUNG YANG, M.D.
Consultant
Microbiology Department

PLACE AND DATE OF BIRTH:
Nan-tou, Taiwan - 28 January 1922

EDUCATIONAL BACKGROUND:

Faculty of Medicine, Taihoku Imperial University (M.B.)	1945
Matsumoto Medical School, Japan (M.D.)	1960
WHO Fellow, Institute of Public Health, Tokyo	1952
AID Fellow, Institute of Microbiology, Rutgers U. and Department of Microbiology, Duke U.	1956

PROFESSIONAL POSITIONS:

1946-1951	Teaching Assistant, Department of Bacteriology, College of Medicine, National Taiwan University (NTU), Taipei, Taiwan.
1951-1954	Instructor, Department of Bacteriology, College of Medicine, NTU, Taipei, Taiwan.
1954-1963	Associate Professor, Department of Bacteriology, College of Medicine, NTU, Taipei, Taiwan.
1961-1963	Fellow, Department of Virology and Epidemiology, Baylor University College of Medicine, Houston, Texas.
1963	China Medical Board Study-Travel Fellow, CDC & NIH, USA.
1963-present	Professor, Department of Bacteriology, College of Medicine, NTU, Taipei, Taiwan.
1969-present	Chairman, Department of Bacteriology, College of Medicine, NTU, Taipei, Taiwan.
1969-present	Consultant, Microbiology Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1972-1973	IUCC Fellow, The Childrens' Hospital of Philadelphia.

PROFESSIONAL SOCIETIES:

Chinese Society of Microbiology
Chinese Medical Association
Formosan Medical Association
American Society for Microbiology

FIELDS OF INTEREST:

Medical Virology especially Oncogenic Viruses.
Antibiotics.

PUBLICATIONS:

Woo, C. T. and Yang, C. S.: Some observation on the Kahn test. J. Formosan Med. Assoc. 48: 300, 1949.

Czau Siung Yang

- Yang, C. S.: Comparative studies on hemolysin-production by goat's and sheep's R.B.C. (in Chinese). J. Formosan Med. Assoc. 50: 274, 1952.
- Yang, C.S.: Some problems on serologic tests for syphilis (in Chinese). J. Formosan Med. Assoc. 51: 254, 1952.
- Lee, T. C., Yang, C. S., and Lin, E. T.: Effect of antibiotics on Shigella isolated from dysenteric children. J. Formosan Med. Assoc. 51: 391, 1952.
- Yang, C. S. and Chiu, T. T.: An investigation of normal agglutinin on Widal test. J. Formosan Med. Assoc. 51: 459, 1952.
- Yang, C. S.: Epidemic of influenza in 1953, Serologic diagnosis (in Chinese). J. Formosan Med. Assoc. 52: 844, 1953.
- Yang, C. S., Chang, S. S., and Meng, C. C.: Biochemical behavior and penicillin-sensitivity of M. pyogenes isolated from nasal carriers. J. Formosan Med. Assoc. 53: 297, 1954.
- Yang, C. S., Chang, S. S., Lin, E. T., Chen, J. S., and Chiu, T. T.: Studies on shigella strains isolated in Taipei (1951-1953): Type distribution and susceptibility to dihydrostreptomycin, chloromycetin, colistin, and sulfadiazine. J. Formosan Med. Assoc. 53: 419, 1954.
- Yang, C. S., Chou, C. T., and Lai, J. S.: Studies on poliovirus in tissue culture; I. Isolation of poliovirus with Taiwan monkey kidney cells. J. Formosan Med. Assoc. 58: 540, 1959.
- Yang, C. S.: Studies on poliovirus in tissue culture; II. Antibody response and virus excretion in Taiwan monkeys injected with poliovirus. J. Formosan Med. Assoc. 58: 579, 1959.
- Yang, C. S., Lai, J. S., Shiao, L. C., and Kao, M. I.: Age distribution of poliovirus neutralizing antibodies in Taipei area. J. Formosan Med. Assoc. 59: 423, 1960.
- Yang, C. S., Lai, J. S., Shiao, L. C., and Kao, M. I.: Neutralizing antibody response of healthy children to Salk vaccine. J. Formosan Med. Assoc. 60: 356, 1961.
- Yang, C. S. and Lai, J. S.: A study on titration of antibody against poliovirus by hemagglutination test (in Chinese). J. Formosan Med. Assoc. 60: 445, 1961.
- Yang, C. S., Lee, Y. J., and Lin, Y. C.: Experimental infection with poliovirus type I in Taiwan monkeys by oral route. J. Formosan Med. Assoc. 61: 273, 1962.
- Liao, Y. L., Lin, Y. C., and Yang, C. S.: A newly established cell line, Taita No. 1. J. Formosan Med. Assoc. 61: 429, 1962.
- Wallis, C., Yang, C. S., and Melnick, J. L.: Effect of cations on thermal inactivation of Vaccinia, Herpes simplex and Adenovirus. J. Immunol. 89: 41, 1962.

Czau Siung Yang

- Yang, C. S. and Melnick, J. L.: Contamination of adenovirus stocks with SV40 (Papovavirus group). *Proc. Soc. Exp. Biol. Med.* 113: 339, 1963.
- Yang, C. S., Tai, F. H., Wallis, C., and Melnick, J. L.: Adenovirus vaccine prepared by thermal inactivation of the infective moiety of the virus in magnesium ions. *J. Immunol.* 91: 283, 1963.
- Lin, Y. C. and Yang, C. S.: An antifungal antibiotic produced by a strain of streptomyces isolated from Taiwan soil. *J. Formosan Med. Assoc.* 64:446, 1965.
- Hung, M. H. and Yang, C. S.: Studies on Pleuropneumonia-Like Organisms (PPLO). I. Isolation of PPLO from established cell lines and cell strains used in Taiwan. *J. Formosan Med. Assoc.* 64: 698, 1965.
- Kuo, C. H. and Yang, C. S.: A serological survey on natural infection of polyoma virus in experimental animals on Taiwan. *J. Formosan Med. Assoc.* 64:707, 1965.
- Wu, T. H., Chen, C. Y., Yang, C. S., Chen, C. L., and Chen, K. P.: Prevalence of enterovirus infection among healthy young children in Taipei area. *J. Formosan Med. Assoc.* 65: 99, 1966.
- Yang, C. S., Kuo, C. H., and Chen, C. Y.: A study on natural infection of simian virus 40 (SV40) in Taiwan monkeys (*Macaca cyclopis*). *J. Formosan Med. Assoc.* 66: 143, 1967.
- Wei, E. P. and Yang, C. S.: Preparation of cell cultures by papain procedure. *J. Formosan Med. Assoc.* 67: 7, 1968.
- Liu, W. T. and Yang, C. S.: Electron microscopic studies on dual infection of human adenovirus type 12 and simian virus 40 in Taiwan monkey cells. *Chinese J. Microbiol.* 1: 1, 1968.
- Yang, C. S., Kuo, C. C., Del Favero, J. E., and Alexander, E. R.: Care and raising of newborn Taiwan monkeys (*Macaca cyclopis*) for virus studies. *Lab. Animal Care* 18: 536, 1968.
- Hung, M. H. and Yang, C. S.: Studies on PPLO (Mycoplasma). II. Identification of mycoplasma isolated from cell lines and human specimens by growth inhibition test. *Chinese J. Microbiol.* 1: 106, 1968.
- Chang, I., Chi, J. Y., and Yang, C. S.: Some biological properties of adenovirus type 12-induced hamster tumor cell lines. *Chinese J. Microbiol.* 1: 134, 1968.
- Shieh, S. H., Chu, C. T., and Yang, C. S.: Biological properties of tumor cells derived from hamsters infected dually with SV40 and human adenovirus type 12. *Chinese J. Microbiol.* 2: 73, 1969.
- Yoshida, T., Liu, C. H., Yang, C. S., and Ito, Y.: Membrane immunofluorescence reactions of Burkitt lymphoma cell (P3HR-1) exposed to sera of tumor patients and healthy normal subjects: with particular reference to the action of sera of nasopharyngeal cancer patients. *Gann Monograph.* 7: 311, 1969.

Czau Siung Yang

- Kawamura, A., Takada, M., Gotoh, A., Hamajima, K., Sanpe, T., Murata, M., Ito, Y., Takahashi, T., Yoshida, T., Hirayama, T., Tu, S. M., Liu, C. H., Yang, C. S., and Wang, C. H.: Seroepidemiological studies on nasopharyngeal carcinoma by fluorescent antibody techniques with cultured Burkitt lymphoma cell. *Gann* 61: 55, 1970.
- Yang, C. S., Lin, Y. C., Tu, S. M., Lin, H. S., Liu, C. H., Liang, W. T., Chiou, J. F., and Kawamura, A., Jr.: In vitro cultivation of biopsy specimens taken from nasopharyngeal carcinoma patients in Taiwan. *Chinese J. Microbiol.* 3: 134, 1970.
- Chu, C. T., Yang, C. S., and Kawamura, A., Jr.: Antibodies to Epstein-Barr virus in Burkitt's lymphoma cell line in Taiwan monkeys (*Macaca cyclopis*). *Applied Microbiol.* 21: 539, 1971.
- Takada, M., Lin, Y. C., Shiratori, O., Sugano, H., Yang, C. S., Hsu, M. M., Lynn, T. C., Tu, S. M., Chen, H. C., Hamajima, K., Murata, M., Gotoh, A., Kawamura, A., Jr., Yoshida, T. O., Osato, T., and Ito, Y.: Cultivation in vitro of cells derived from nasopharyngeal carcinoma. *Gann Monography* 10: 149, 1971.
- Shiratori, O., Hori, K., Katagiri, K., Kimura, I., Yang, C. S., and Ito, Y.: Spontaneous transformation of cultured cells derived from nasopharyngeal carcinoma. *Ibid.* 10: 173, 1971.
- Kawamura, A., Jr., Hamajima, K., Gotoh, A., Murata, M., Takada, M., Sanpe, T., Takahashi, T., Yoshida, T. O., Ito, Y., Hirayama, T., Nishioka, K., Tachibana, T., Yang, C. S., Wang, C. H., Ho, S. W., Chu, C. T., Chen, H. C., Hsu, M. M., Lynn, T. C., Tu, S. M., Lin, T. M., and Liu, C. H.: Seroepidemiological studies on nasopharyngeal carcinoma by immunofluorescence. *Ibid.* 10: 185, 1971.
- Yang, C. S., Shieh, S. H., Hsu, M. M., Lin, Y. C., and Kawamura, A. Jr.: Antibodies to herpes-type virus, herpes virus, adenovirus, and reovirus in nasopharyngeal carcinoma patients in Taiwan. *Ibid.* 10: 199, 1971.
- Yoshida, T., Takada, M., Kawamura, A., Jr., Yang, C. S., Tu, S. M., Liu, C. H., and Ito, Y.: Antinuclear antibodies in the sera of nasopharyngeal carcinoma patients. *Ibid.* 10: 283, 1971.
- Yang, C. S., Shieh, S. H., Chang, Y. Y., Wei, E. P., Lin, Y. C., and Chu, C. T.: Virus excretion and antibody response of Taiwan monkeys infected dually with human adenovirus type 12 and simian virus 40. *Chinese J. Microbiol.* 4: 6, 1971.
- Kawamura, A., Jr., Hamajima, K., Murata, M., Gotoh, A., Takada, M., Nishioka, K., Takchibana, T., Hirayama, T., Yoshida, T. O., Imai, K., Ito, Y., Yang, C. S., Chu, C. T., Wang, C. H., Ho, S. W., Tu, S. M., Liu, C. H., and Lin, T. M.: Studies on nasopharyngeal carcinoma and Burkitt lymphoma by immunofluorescence. *Ann. N. Y. Acad. Sci.* 177: 250, 1971.
- Lin, T. M., Yang, C. S., Ho, S. W., Chiou, J. F., Liu, C. H., Tu, S. M., Chen, K. P., Ito, Y., Kawamura, A., Jr., and Hirayama, T.: Antibodies to herpes-type virus in nasopharyngeal carcinoma and control groups. *Cancer* 29:603, 1972.

Czau Siung Yang

- Lin, Y. C., Yang, T. I., Chen, J. Y., and Yang, C. S.: Search for biologically active substances in Taiwan medicinal plants 1. Screening for anti-tumor and anti-microbial substances. *Chinese J. Microbiol.* 5: 76, 1972.
- Chiou, J. F., Huang, S. C., Liu, W. Y., Chou, C. C., Wang, A. L., and Yang, C. S.: Effect of ^{60}Co -irradiation on antibody response of Taiwan monkeys (*Macaca cyclopis*). *Chinese J. Microbiol.* 6: 80, 1973.
- Lin, Y. C., Yang, T. I., Chen, J. Y., and Yang, C. S.: Search for biologically active substances in Taiwan medicinal plants. 2. Further screening for anti-tumor and anti-microbial substances. *Chinese J. Microbiol.* 6: 97, 1973.
- Peng, M. T., Lai, Y. L., Yang, C. S., and Chiang, H. S.: Formosan monkey (*Macaca cyclopis*): Present situation in Taiwan and its reproductive biology. *Exp. Animals*. (Suppl.) 22: 447, 1973.
- Peng, M. T., Lai, Y. L., Yang, C. S., Chiang, H. S., New, A. E., and Chang, C. P.: Reproductive parameters of the Taiwan monkey (*Macaca cyclopis*). *Primates* 14: 201, 1973.
- Liu, T. M., Yang, C. S., Chiou, J. F., Tu, S. M., Liu, C. H., Chen, K. P., Ito, Y., Kawamura, A., Jr., and Hirayama, T.: Seroepidemiological studies on carcinoma of the nasopharynx. *Cancer Research* 33: 2603, 1973.
- Ida, S., Hinuma, Y., Chu, C. T., Chiou, J. F., Lai, J. G., Yang, C. S., Lyun, T. C., Hsu, M. M., Tu, S. M., and Kawamura, A., Jr.: Further studies on antibodies to early antigens induced by Epstein-Barr virus in nasopharyngeal carcinoma patients. *Gann* 64: 545, 1973.
- Lin, Y. C., Yang, T. I., and Yang, C. S.: Effect of cordacin on macromolecular biosynthesis in lymphoblastoid cells. *Chinese J. Microbiol.* 7: 64, 1974.
- Chen, J. Y., Yang, T. I., Lin, Y. C., and Yang, C. S.: Search for biologically active substances in Taiwan medicinal plants 3. Further screening for anti-tumor and anti-microbial substances. *Chinese J. Microbiol.* 7: 104, 1974.
- Yang, C. S. and Hewetson, J. F.: Cytotoxic antibodies to cultured lymphoblasts unrelated to Epstein-Barr Virus. *Int. J. Cancer* 14: 530, 1974.
- Yang, C. S., Shieh, S. H., Lin, Y. C., and Chu, C. T.: Biological properties of "Baby Taiwan Monkey" strains of human adenovirus type 12. *Chinese J. Microbiol.* 7: 139, 1974.



TSU HSING YANG
Consultant
Biochemistry Department

PLACE AND DATE OF BIRTH:
Taipei, Taiwan - 4 September 1913

EDUCATIONAL BACKGROUND:
Taipei Imperial University
(B.S.) 1938

PROFESSIONAL POSITIONS:

1938-1945 Teaching Assistant of Agricultural Chemistry, Taipei Imperial University.
1945-1948 Associate Professor of Agricultural Chemistry, National Taiwan University.
1948-present Professor of Agricultural Chemistry, National Taiwan University.
1949-1953 Consultant Specialist, Department of Agriculture and Forest, Taiwan Provincial Government.
1950-present Regular Member of Food Committee, Central Standard Bureau, Government of Republic of China.
1956-1957 Visitor Scholar, University of California, Davis, California.
1960-present Consultant, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.
1961-present Head, Department of Food and Nutrition, Shih-Chien Home Economics College, Taipei, Taiwan.
1964-present Professor, Taipei Medical College.
1965-1967 Member, Committee of Food Sanitation, Taiwan Provincial Government

PROFESSIONAL SOCIETIES:

Chinese Agricultural Chemical Society
Society of Formosan Science
Chinese Agricultural Association
Japanese Agricultural Chemistry Association
Nutrition Society of Republic of China

FIELDS OF INTEREST:

Nutritional Chemistry, Food Chemistry, Food Processing



SHU YEH, M. D.
Consultant
Pathology Department

PLACE AND DATE OF BIRTH:
Hupei, China - 16 March 1908

EDUCATIONAL BACKGROUND:
Chiba Medical College, Chiba,
Japan (M.B.) 1934
Chiba Medical College, Chiba,
Japan (M.D.) 1938

PROFESSIONAL POSITIONS:

1946-present Professor of Pathology, National Taiwan University, Taipei, Taiwan.
1969-present Consultant, Pathology Department, U. S. Naval Medical Research
Unit No. 2, Taipei, Taiwan.

PROFESSIONAL SOCIETIES:

Japanese Pathological Society
American Society of Clinical Pathologists
Chinese Medical Association
Formosan Medical Association

PUBLICATIONS:

- Yeh, S. and Cowdry, E. V.: Incidence of Malignant Tumors in Chinese, Especially in Formosa. *Cancer* 7: 425-436, 1954.
- Chen, T. Y., Peng, T. L., and Yeh, S.: Chorioadenoma Destruens and Choriocarcinoma. *Reports, Institute of Pathology, National Taiwan University*. No. 8, p. 57, 1957.
- Chen, H. C. and Yeh, S.: Meningeal Tuberculosis and Tuberculous Meningitis. *Reports, Institute of Pathology, National Taiwan University*. No. 8, p.85, 1957.
- Yeh, S.: Congenital Malformations of the Heart Found in Autopsies at the Department of Pathology of National Taiwan University During a 10-year Period from 1946 to 1956. *Acta Path. Jap.* 7: 117-133, 1957.
- Yeh, S.: Congenital Heart Disease in Taiwan. *Reports, Institute of Pathology, National Taiwan University*. No. 11, pp. 69-78, 1958.
- Yeh, S.: A histological Classification of Carcinomas of the Nasopharynx with a Critical Review as to the Existence of Lymphoepithelioma. *Cancer* 15: 895-920, 1962.

Shu Yeh

- Yeh, S.: Relative Incidence of Skin Cancer in Chinese in Taiwan: With Special Reference to Arsenical Cancer. NCI Monogr. No. 10: 81-107, 1963.
- Yeh, S.: Some Geographic Pathology Aspects of Common Diseases in Taiwan. Part One. Artherosclerosis and Collagen Disease. International Pathology 6: 81-85, 1965.
- Yeh, S.: Some Geographic Pathology Aspects of Common Diseases in Taiwan. Part Two. Infection and Cancer. International Pathology. 7: 24-28, 1966.
- Yeh, S.: The Relative Frequency of Cancer of the Nasopharynx and Accessory Sinuses in Chinese in Taiwan. UICC Monograph Series 1, 9: 54-57, 1966.
- Yeh, S.: Histology of Nasopharyngeal Cancer. UICC Monograph Series 1, 23: 147-152, 1966.
- Yeh, S., How, S. W., and Lin, C. S.: Arsenical Cancer of Skin. Histologic Study with Special Reference to Bowen's Disease. Cancer, 21: 312-339, 1968.
- Tseng, W. P., Chu, H. M., How, S. W., Fong, J. M., Lin, C. S., and Yeh, S.: Prevalence of Skin Cancer in an Endemic Area of Chronic Arsenicism in Taiwan. J. Nat. Cancer Institute 40: 453-463, 1968.
- Lin, H. S., Lin, C. S., Yeh, S., and Tu, S. M.: Fine Structure of Nasopharyngeal Carcinoma with Special Reference to the Anaplastic Type. Cancer 23: 390-405, 1969.
- Yeh, S. and How, S. W.: A Pathological Study on the Blackfoot Disease in Taiwan. Reports, Institute of Pathology, National Taiwan University. No. 14: 25-73, 1963.
- How, S. W. and Yeh, S.: Studies on Endemic Chronic Arsenical Poisoning. 2. Histopathology of Arsenical Cancer, with Special Reference to Bowen's disease. Reports, Institute of Pathology, National Taiwan University. No. 14: 75-105, 1963.
- Chen, H. C., Yeh, S., and Sugano, H.: Histogenesis of Anaplastic Epidermoid Carcinoma and Stromal Reaction in the Nasopharynx. Gann Monograph No. 10, 1971.
- Chen, H. C., Yeh, S., Tu, S. M., Hsu, M. M., Lynn, T. C., and Sugano, H.: Anaplastic Carcinoma of the Nasopharynx Research on Nasopharyngeal Cancer, Tokyo University Press, Tokyo, Japan, pp. 239-267, 1971.
- Yeh, S.: Skin Cancer in Chronic Arsenicism. Human Path. 4: 469-485, 1973.
- Yeh, S., Chen, H. C., How, S. W., and Deng, C. S.: Fine Structure of Bowen's disease in Chronic Arsenicism. J. Nat. Cancer Institute 53: 31-44, 1974.



SI JUNG YEH, Ph.D.
Consultant
Medical Physics Department

PLACE AND DATE OF BIRTH:
Taiwan, China - 24 May 1927

EDUCATIONAL BACKGROUND:

National Taiwan University (B.S.)	1950
University of Southern California (M.S.)	1956
University of Cincinnati (Ph.D.)	1968

PROFESSIONAL POSITIONS:

1958-1959 Research Associate, University of Oregon.
1959-1962 Associate Professor, National Tsing Hua University, Hsinchu, Taiwan.
1969-present Consultant, Medical Physics Department, U. S. Naval Medical
Research Unit No. 2, Taipei, Taiwan.
1962-present Professor, National Tsing Hua University, Hsinchu, Taiwan.

PROFESSIONAL SOCIETIES:
Chinese Chemical Society

FIELDS OF INTEREST:
Nuclear and Radiochemistry
Radioisotope Production and Its Application
Trace Elemental Analysis



CHUN HUI YEN, M. D.
Consultant
Medical Physics Department

PLACE AND DATE OF BIRTH:
Taiwan, China - 8 December 1907

EDUCATIONAL BACKGROUND:
Yenching University, Peiping, China (B.S.) 1928
Peiping Union Medical College Peiping, China (M.D.) 1932
School of Public Health, University of Toronto, Canada (D.P.H.) 1938

PROFESSIONAL POSOTIONS:

1932-1941	Assistant Professor, Department of Bacteriology and Immunology, Peiping Union Medical College, Peiping, China.
1945-1946	Chief, Laboratory Technician Training Center, National Institute of Health, Peiping, China.
1945-1947	Professor, Department of Bacteriology and Immunology, Peking University, Peiping, China.
1947-1962	Provincial Commissioner of Health, Taiwan, ROC.
1947-1963	Concurrently, Director, The Provincial Hygenic Laboratories, Taiwan, ROC.
1948-1963	Concurrently, Director, Provincial Institute of Maternal and Child Health, Taiwan, ROC.
1961-1963	Concurrently, Professor of Public Health, National Taiwan University, Medical College, Taiwan, ROC.
1963-1969	Advisor, Ministry of Interior, National Government, Taipei, Taiwan.
1963	Visiting Professor of Bacteriology, The National Defense Medical Center, Taipei, Taiwan.
1963-1964	WHO Senior Epidemiologist, Institute of Public Health, Dacca, East Pakistan.
1964-1966	Regional Communicable Diseases Officer, WHO, Western Pacific Region, Manila, Philippines.
1966-1969	Regional Advisor on Communicable Diseases, WHO, Western Pacific Region, Manila, Philippines.
1969-1970	Consultant on Communicable Diseases, WPRO and WHO headquarters.
1971-1974	Director-General, National Health Administration, ROC. (Retired)
1971-present	Professor, Department of Public Health, National Taiwan University, Medical College, Taipei, Taiwan.
1974-present	Consultant, Medical Physics Department, U. S. Naval Medical Research Unit No. 2, Taipei, Taiwan.

Chun Hui Yen

PUBLICATIONS:

- Yen, C. H.: Phenolphthalein Starch Medium for Rapid Isolation of V. cholerae. Proc. Soc. for Exper. Biol. and Med. XXX: 884-887, 1933.
- Yen, C. H. and Liu, S. C.: Effect of Supersonic Waves on Bacteria. Proc. Soc. for Exper. Biol. and Med. 31: 1250-1252, 1934.
- Yen, C. H. and Chung, H. L.: Cultivation of Leishmania donovani in Media of Embryonic Chick Tissues. Proc. Soc. for Exper. Biol. and Med. 31: 1258-1259, 1934.
- Yen, C. H. and Chang, H. C.: Antihistamine Activity of Whole Blood. Proc. Soc. for Exper. Biol. and Med. 31: 337-338, 1933.
- Yen, C. H.: Liquefaction of Rabbit Fibrin-Clots by Concentrated Streptococcus Fibrinolysin. Proc. Soc. for Exper. Biol. and Med. 32: 1403-1404, 1935.
- Yen, C. H.: Pour Plate Study of Bacteriophage. Proc. Soc. for Exper. Biol. and Med. 32: 1006-1010, 1935.
- Craigie, J. and Yen, C. H.: V. Bacteriophages for B. typhosus. Trans. Royal Society, Canada, Section V. pp. 79-87, 1937.
- Craigie, J. and Yen, C. H.: The Demonstration of Types of B. typhosus by Means of Preparations of Type II Vi-Phage, Part I. Canadian Public Health J. 29: 448-463, 1938.
- Craigie, J. and Yen, C. H.: The Demonstration of Types of B. typhosus by Means of Preparations of Type II. Vi-Phage, Part II. Canadian Public Health J. 29: 484-496, 1938.
- Yen, C. H.: Phage Typing of B. typhosus and its Epidemiological Significance. Chin. Med. J. 57: 330-357, 1940.
- Yen, C. H.: Bacteriophage Typing of B. typhosus Isolated in Peiping. Proc. Soc. for Exper. Biol. and Med. 41: 162-165, 1939.
- Yen, C. H.: Cultural Studies on the Bacteriophagic Types of V. form Salmonella typhi. Chin. Med. J., Suppl. 3, pp. 321-328, 1940.
- Yen, C. H.: Urinary Excretion of Vi-Phage and B. typhosus Following Phage-Inoculation in a Typhoid Carrier. Proc. Soc. for Exper. Biol. and Med. 45: 78-83, 1940.
- Yen, C. H.: Type Stability to Bacteriophage of Variants of B. typhosus. Proc. Soc. for Exper. Biol. and Med. 41: 165-167, 1939.
- Yen, C. H.: On Homogeneity of Bacteriophagic Types of B. typhosus Isolated from Patients and Carriers. Chin. Med. J. 57: 556-558, 1940.

Chun Hui Yen

- Hare, R. and Yen, C. H.: Isolation of Virus from Cases of Influenza in Toronto. Canadian Public Health J. pp. 27-31, 1938.
- Yen, C. H.: Studies on the Virus Human Influenza. Chin. Med. J. 55: 239-261, 1939.
- Yen, C. H.: Experimental Virus Infections in Chinese Hamster I Susceptibility to Fixed Rabies Virus. Proc. Soc. for Exper. Biol. and Med. 34: 315-318, 1936.
- Yen, C. H.: Experimental Virus Infections in Chinese Hamster II Susceptibility to Street Rabies Virus. Proc. Soc. for Exper. Biol. and Med. 34: 648-651, 1936.
- Yen, C. H.: Susceptibility of Chinese Hamsters to the Mouse-Passage Virus of Human Influenza. Chin. Med. J., Suppl. 3, pp. 342-348, 1940.
- Yen, C. H.: Isolation of a Virus from an Acute Encephalitis Case in Peiping. Proc. Soc. for Exper. Biol. and Med. 46: 609-611, 1941.
- Yen, C. H.: Isolation of a Virus from a Case of Acute Poliomyelitis in Peiping. Chin. Med. J. 60: 199-206, 1941.
- Yen, C. H.: A Study on the Effect of Cortin upon Diphtheria Intoxication in Guinea Pigs. Chin. Med. J., Suppl. 1, pp. 251-255, 1936.
- Yen, C. H.: A Study on Certain Chemical and Physical Factors Causing Bacteriolysis. Trans. 9th Cong. Far East Assoc. Trop. Med., Nanking 1: 303-309, 1934.
- Yen, C. H.: Protective Value of Antiviral Serum in Experimental Rabies Infection. Proc. Soc. for Exper. Biol. and Med. 49: 533, 1942.
- Yen, C. H.: Protective Values of Various Types of VI Phage on Experimental Typhoid Infection on Mice. Proc. Soc. for Exper. Biol. and Med. 48: 243-245, 1941.
- Yen, C. H.: A Differential Medium for Isolation of V. cholerae. Chin. Med. J. 65: 133-134, 1947.
- Yen, C. H.: The Preparation of Specific Bacterial Carbohydrate Substance by Electrolysis. J. Inf. Dis. 56: 238-249, 1935.
- Yen, C. H.: Bacteriophages and Its Applications. Nat. Med. J. of China. 27: 32, 1941.
- Yen, C. H.: A Practical Course in Bacteriology and Immunology. Lab. Manual in Chinese, 1941.
- Grayston, J. T., Woolridge, R. L., Chen, C. W., Assaad, F. A., Maffei, D. S., Yen, C. H., and Yang, C. Y.: Bacterial Conjunctivitis Caused by Eye Ointment Base Used as Placebo in Therapeutic Trials. Amer. J. Ophthal. 52: 521-560, 1961.
- Grayston, J. T. and Yen, C. H.: Preliminary Report on Rubella in Taiwan. J. Formosan Med. Assoc. 57: 826, 1959.
- Yen, C. H.: A Forty-Year Review of Progress in Public Health in Taiwan, China. Tenth Pacific Science Congress, Public Health and Medical Sciences in the Pacific, pp. 45-53, Edited by J. Ralph Audy.

Chun Hui Yen

- Yen, C. H., Cheng, C. Y., Chang, I. H., Grayston, J. T., Woolridge, R. L., and Wang, S. P.: Preliminary Report on Field Studies of Trachoma Vaccine on Taiwan. *J. Formosan Med. Assoc.* 60: 891-897, 1961.
- Grayston, J. T., Wang, S. P., and Yen, C. H.: Encephalitis on Taiwan: 1. Introduction and Epidemiology. *Amer. J. Trop. Med. Hyg.* 11: 126-130, 1962.
- Yen, C. H.: Control of Cholera (El Tor) Outbreak in Taiwan. *Taiwan Public Health J.* 1: 1-14, 1962. (in Chinese)
- Green, I. J., Yen, C. H., and Hung, S. C.: Epidemiology of Japanese Encephalitis Virus on Taiwan in 1961. *Amer. J. Trop. Med. Hyg.* 12: 668-674, 1963.
- Yen, C. H., Rahman, A.H.M.A., and Islam, A.: Epidemiological Observations on a Recent Outbreak of Cholera in East Pakistan. *East Pakistan Medical J.* VIII: 22-26, 1964.
- Yen, C. H.: A Recent Study of Cholera with Reference to an Outbreak in Taiwan in 1962. *Bull. Wld. Hlth. Orgn.* 30: 811-823, 1962.
- Yen, C. H.: Cholera in Asia. *Proceedings of the Cholera Research Symposium, 1965*, pp. 346. U. S. Department of Health, Education, and Welfare, United States Public Health Service.
- Grayston, J. T., Woolridge, R. L., Wang, S. P., Yen, C. H., Yang, C. Y., Cheng, C. Y., and Chang, I. H.: Field Studies of Protection from Infection by Experimental Trachoma Virus Vaccine in Preschool Age Children on Taiwan. *Proc. Soc. for Exper. Biol. Med.* 112: 589-595, 1963.
- Yen, C. H.: Prevention and Control of Cholera. *Cholera-A Review for WHO Seminar, WHO/BD/Cholera/70. 19*, World Health Organization, Geneva, Switzerland pp. 61, 1970.
- Yen, C. H., Wang, C. M., and Wang, Y. T.: A Review of Family Planning Activities in Taiwan. *Studies in Family Planning, The Population Council Inc., New York N. Y.*, 4: 118, 1973.
- Yen, C. H.: A Review of Progress in Public Health in Taiwan, Republic of China. *Chinese Med. J.* 20: 106-133, 1973.
- Wong, C. N., Ryu, E., Yen, C. H., and Lin, C. C.: Studies on the investigation for the Hi titer of Japanese Encephalitis in Swine. *Taiwan J. Vet. Med. Animal Husbandry*, No. 23, pp. 1-7, 1973.